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"CHEMICUS LONDON."

**Established in  
ENGLAND, 1859.**

Published Weekly at 42 CANNON STREET,  
LONDON, E.C.

**Established in  
[AUSTRALASIA, 1885.]**

No. 1,526, Vol LXXIV.

APRIL 24, 1909

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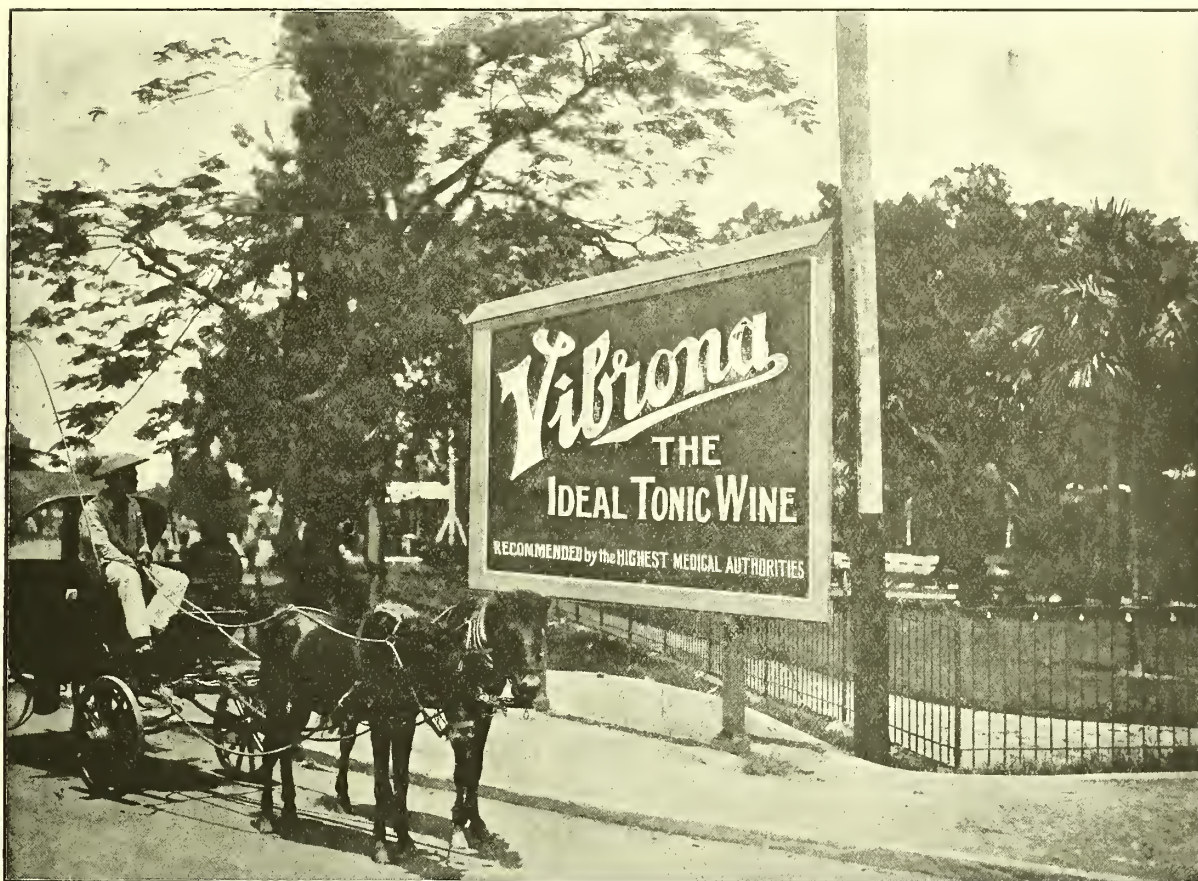
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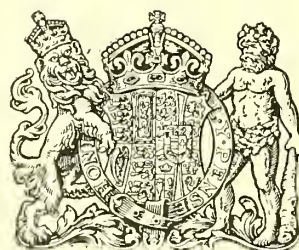
## KING

and the

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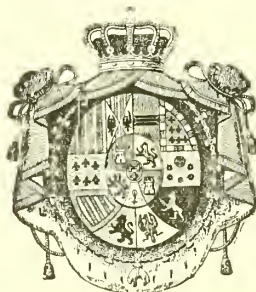


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The headings refer generally to the classes of goods actually advertised, but this is not a detailed Guide such as appears in "The Chemists' and Druggists' Diary." Inquiries addressed to "The Chemist and Druggist," 42 Cannon Street, London, E.C., regarding articles not appearing in these pages will receive prompt attention.

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Harrington Bros., Ltd.  
Hoffmann-La Roche, Ltd.  
Howards & Sons, Ltd.  
Macfarlan, J. F., & Co.  
Martindale, W.  
May & Baker, Ltd.  
Merck, E.  
Morson, T., & Son  
Reitmeyer & Co.  
Schimmel & Co.  
Smith, B. A., & Co.  
Smith, T. & H., Ltd.  
Stamer, Dr. Richard  
Sturge, John & E.  
Tyrer, T., & Co., Ltd.  
Washington Chemical Co.  
White, A., & Sons

## CHEMISTS, MFG.

Allen, Stafford, & Sons, Ltd.  
Anglo-American Pharm. Co., Ltd.  
Ayrton, Sanders & Co.  
Beetham, M., & Son  
Bell, John, Hills & Lnoas, Ltd.  
Blackie, R.  
British Drug Houses, Ltd.  
Burroughs Wellcome & Co.  
Bush, W. J., & Co., Ltd.  
Davenport, J. T., Ltd.  
Duncan, Flockhart & Co.  
Evans Sons Lescher & Webb, Ltd.  
Fletcher, Fletcher & Co.  
Hay, William, Ltd.  
Hewlett, C. J., & Son  
Horner & Sons  
Kutnow, S., & Co., Ltd.  
Lloyd, T. Howard, & Co.  
Lorimer & Co., Ltd.  
Mandall & Co., Ltd.  
Martindale, W.  
Newball & Mason  
Newbery, F., & Sons, Ltd.  
Oldfield, Pattinson & Co.  
Oppenheimer, Son & Co.  
Owbridge, W. T., Ltd.  
Parke, Davis & Co.  
Potter & Clarke  
Randall & Son, Ltd.  
Ransom, W., & Son  
Reitmeyer & Co.  
Sankyo & Co.  
Shirley Bros., Ltd.  
Southall Bros. & Barclay, Ltd.  
Squire & Sons  
Standard Tablet & Pill Co.  
Stevenson & Howell, Ltd.  
Thompson & Capper  
Wand Mfg. Co.  
Woolleys, Ltd.  
(See also WHOLESALE)



**CHEST PROTECTORS**Solport Bros.  
Wood, Vincent**CHLORIDE OF LIME**

Brunner, Mond &amp; Co., Ltd.

**CHLOROFORM**Duncan, Flockhart & Co.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Morson, T., & Son  
Smith, T. & H., Ltd.**CIGARS AND CIGARETTES**Hovenden, R., & Sons, Ltd.  
Singleton & Cole, Ltd.**CITRIC ACID AND CITRATES**British Drug Houses, Ltd.  
Howards & Sons, Ltd.  
Morson, T., & Son  
Sturge, John & Y.**CLINICAL THERMOMETERS**Burge, Warren & Ridgley, Ltd.  
Darton, F., & Co.  
Hicks, J. J.  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Zeal, G. H.**CLOTH BALLS**O'Neill, Zetts & Co.  
Senier, A., & Co**COAL TAR SPECIALITIES**

Wright, Layman &amp; Umney, Ltd.

**COCOA**Cadbury Bros., Ltd.  
Frame Food Co.  
Oppenheimer, Son & Co., Ltd.  
Van Houten & Zoon**COD-LIVER OIL**Aarsæther, Brödr.  
Albrethson, A., & Co.  
Allen & Hanburys, Ltd.  
Alliance Drug & Chem. Co.  
Baiss Bros. & Stevenson, Ltd.  
British Drug Houses, Ltd.  
Bnsh, H. W., & Co., Ltd.  
Devold, Peder  
Evans Sons Lescher & Webb, Ltd.  
Goodall, Backhouse & Co.  
Jervell & Co., Ltd.  
Lloyd, T. Howard, & Co.  
Oldfield, Pattinson & Co.  
Sonthall Bros. & Barclay, Ltd.  
Woolley, Jas., Sons, & Co., Ltd.  
Wright, Layman & Umney, Ltd.  
Zimmermann, A. & M.  
Zimmermann, C., & Co.**COLOURS, BEVERAGE, &c.**Boake (A.), Roberts & Co., Ltd.  
Cresp-Martineng  
Stevenson & Howell, Ltd.  
(See also DAIRY ADJUNCTS)**COMBS**Hovenden, R., & Sons, Ltd.  
Kent, G. B., & Sons, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Newbery, F., & Sons, Ltd.  
Sangers'**CORKS**

Mitchell, N. W., &amp; Sons, Ltd.

**COUNTER ADJUNCTS**

Evans Sons Lescher &amp; Webb, Ltd.

**COUNTER SPECIALITIES**Allen & Hanburys, Ltd.  
British Drug Houses, Ltd.  
Hewlett, C. J., & Son  
Newbery, F., & Sons, Ltd.  
Sonthall Bros. & Barclay, Ltd.  
Woolleys, Ltd.**CREAM OF TARTAR**

British Drug Houses, Ltd.

**CREOSOTE**Baiss Bros. & Stevenson, Ltd.  
Bart, Bonilton & Haywood  
Morson, T., & Son**CYANIDES**

May &amp; Baker, Ltd.

**DAIRY ADJUNCTS**Benger's Food, Ltd.  
Fullwood, R. J., & Bland  
Tomlinson & Hayward, Ltd.**DEAFNESS AIDS**

Hawksley, T.

**DENTAL MECHANICS**Fentiman, A. G.  
Fentiman, A. J., & Co.  
Halder, E. C.  
Wardale & Co.**DENTIFRICES**Beecham, T.  
Beiersdorf, P., & Co.  
Bell, John, Hills & Lucas, Ltd.  
Blackie, R.  
Burroughs Wellcome & Co.  
Calvert, F. C., & Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Eucryl, Ltd.  
Jewsbury & Brown  
Lambert Pharmacal Co.  
McKesson & Robbins  
Maw, S., Son & Sons  
Meyer-Sander Dental Supply  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Sozodont (Richards)  
Standard Tablet & Pill Co.  
Woods, W., & Son  
Woolley, J., Sons & Co., Ltd.**DIABETIC BREAD AND FOOD**Callard & Co.  
Van Abbott, G., & Sons**DIGESTIVE PRODUCTS**Armour & Co., Ltd.  
Benger's Food, Ltd.  
Fairchild Bros. & Foster  
Parke, Davis & Co.  
Squire & Sons  
Zimmermann, C., & Co.**DISINFECTANTS**Baiss Bros. & Stevenson, Ltd.  
Burt, Boulton & Haywood, Ltd.  
Calvert, F. C., & Co.  
Condy & Mitchell, Ltd.  
Dalmas, A. de St., & Co.  
Edwards, W., & Son  
Jeyes' Sanitary Compounds, Ltd.  
Kay Bros., Ltd.  
Lambert Pharmacal Co.  
McDougall Bros.  
Morris Little & Son, Ltd.  
Roberts, Cornford & Co.  
Rowan, A., & Brother  
Sanitas Co., Ltd.  
Tomlinson & Hayward, Ltd.  
Willows, Francis B. & T.  
Wright, Layman & Umney, Ltd.  
Zimmermann, C., & Co.**DOG BISCUITS AND PREPS.**

Spratt's Patent, Ltd.

**DRUGGISTS' SUNDRIES**Ayrton, Saunders & Co., Ltd.  
Barclay & Sons, Ltd.  
Berliner, Arthur  
Burge, Warren & Ridgley  
Chemists' Co-operative Wholesale  
Christy, T., & Co.  
Cook, Alfred, & Co.  
Edwards, W., & Son  
Evans Sons Lescher & Webb  
Fecher, M. J.  
Hay, J. B., & Co.  
Hewlett, C. J., & Sons  
Hovenden, R., & Sons, Ltd.  
Johnsen & Jorgensen, Ltd.  
Lennon, Ltd.  
Maw, S., Son & Sons  
May, Roberts & Co.  
Murdoch, John, & Co.  
Newbery, F., & Sons, Ltd.  
Pothe, H., & Co.  
Quelch, H. C., & Co.  
Reuter, R. J.  
Rosenstiel, B.  
Sangers'  
Schutze, F., & Co.  
Solport Bros.  
Sonthall Bros. & Barclay, Ltd.  
Taylor, F. H., & Sons  
Tidman & Son, Ltd.  
Toogood, W., Ltd.  
Viscose Co., Ltd.  
Wood, Vincent  
Woolley, J., Sons & Co.**DRUGS, CRUDE**Potter & Clarke, Ltd.  
Ransom, W., & Son**DYES**Judson, D., & Son  
Whittaker & Co.**EAU DE COLOGNE**Farina, J. M.  
Farina, J. M. (No. 4)  
Pickus, Courtenay & Co.  
McCracken, J. & R.  
Schutze, F., & Co.**EDUCATIONAL INSTITUTIONS**Bath and West of England College of Pharmacy  
Birmingham and Midland College of Pharmacy  
Charing Cross Hospital Medical College  
Edinburgh Central School of Pharmacy  
Glasgow School of Pharmacy  
Leeds College of Pharmacy  
Liverpool School of Pharmacy  
London College of Pharmacy  
Manchester College of Pharmacy  
Muter's (So. Lond.) School of Pharmacy  
North of England School of Pharmacy  
Northern College of Pharmacy  
Royal Dental Hospital of London  
South of England College of Pharmacy  
Westminster College of Pharmacy**EFFERVESCENT PREPS.**Allen & Hanburys, Ltd.  
Bishop, Alfred, Ltd.  
Blackie, R.  
Bristol-Myers Co.  
Cox, A. H., & Co., Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Goodall, Backhouse & Co.  
Guest, Thos., & Co.  
Kintow, S., & Co., Ltd.  
Lloyd, T. Howard, & Co.  
Lorimer & Co., Ltd.  
Martindale, W.  
Newball & Mason  
Pitter & Clarke  
Standard Tablet & Pill Co.  
Sturge, John & E.  
Tidman & Son, Ltd.  
Tyrer, T., & Co., Ltd.  
Wright, Layman & Umney**ELASTIC HOSIERY**Ayrton, Saunders & Co., Ltd.  
Berliner, Arthur  
Haywood, J. H.  
Jackson, Röhrs, & Co.  
Maw, S., Son & Sons  
Wood, Vincent**ELECTRICAL MASSAGE INSTRUMENTS**

Jones &amp; Kleiser

**EMERY AND CLOTH**

Oakley, J., &amp; Sons, Ltd.

**EMULSIONS, COD - LIVER OIL, ETC.**Allen & Hanburys, Ltd.  
Ayrton, Saunders & Co.  
Baiss Bros. & Stevenson, Ltd.  
Blackie, R.  
Boulton, J., & Co.  
British Drug Houses, Ltd.  
Evans Sons Lescher & Webb, Ltd.  
Faulding, F. H., & Co.  
Harker, Stagg & Morgan, Ltd.  
Lorimer & Co., Ltd.  
Oldfield, Pattinson & Co.  
Parke, Davis & Co.  
Woolley, Jas. Sons, & Co.  
Woolleys, Ltd.**ENEMAS**Bailey, W. H., & Son  
Baird Bros.  
Burge, Warren & Ridgley  
Daval Rubber Co.  
Hay, J. B., & Co.  
Ingram, J. G., & Son  
Maw, S., Son & Sons  
Toogood, W., Ltd.  
Warne, W., & Co., Ltd.**EPSOM SALTS**

Howards &amp; Sons, Ltd.

**ESSENCES, CONCRETE**Lautier Fils  
Murray, O., & Co., Ltd.  
Mallmann, W.  
Roure-Bertrand fils  
Schmoller & Bompard**ESSENCES, SOL AND FRUIT**Alliance Drug & Chem. Co.  
Baiss Bros. & Stevenson, Ltd.  
Barnett & Foster  
Boake (A.), Roberts & Co., Ltd.  
Bnsh, W. J., & Co., Ltd.  
Cresp-Martineng  
Evans Sons Lescher & Webb  
Hay, Wm., Ltd.  
Lautier Fils  
London Essence Co.  
Lorimer & Co., Ltd.  
Newball & Mason  
Roure-Bertrand fils  
Spencer, J., Son & Co.  
Stevenson & Howell, Ltd.  
Whittaker, A.  
Zimmermann, A. & M.**ETHERS**Baiss Bros. & Stevenson, Ltd.  
Macfarlan, J. F., & Co.  
May & Baker, Ltd.  
Tyrer, T., & Co., Ltd.  
White, A., & Sons**ETHYL CHLORIDE**

Dnncan, Flockhart &amp; Co.

**EUCALYPTUS OIL**British Drug Houses, Ltd.  
Baiss Bros. & Stevenson, Ltd.**EXTRACT OF HERBS**Newball & Mason  
Potter & Clarke**EXTRACTS (MEDICINAL)**Allen, Stafford, & Sons, Ltd.  
Chemists' Co-operative Wholesale  
Hewlett, C. J., & Son  
Parke, Davis & Co.  
Ransom, W., & Son  
(See also WHOLESALE DRUGGISTS)**FEEDING BOTTLES**Brefit, E., & Co., Ltd.  
Fecher, M. J.  
Hovenden, R., & Sons, Ltd.  
Kilner Bros., Ltd.  
Maw, S., Son & Sons  
Sangers  
Savory & Moore, Ltd.  
Sonthall Bros. & Barclay, Ltd.  
Taylor, F. H., & Sons**FERTILIZERS**

With's Chemical Mannre Co.

**FILLING MACHINES**

Roberts' Pat. Fill. Machine Co.

**FILTERS (WATER)**

Berkefeld Filter Co., Ltd.

**FLYCATCHERS**Alabastine Co. (British), Ltd.  
Kay Bros., Ltd.  
Lange's, H., Successors  
Smith, J. H., & Co.  
Strong, Christy**FLY-GUMS**

Kay Bros., Ltd.

**FOODS, INFANTS'**Allen & Hanburys, Ltd.  
Benger's Food, Ltd.  
Frame Food Co., Ltd.  
Lofthouse & Saltmer  
Natrul Food Co., Ltd.  
Willows, Francis B. & T.**FOODS, SPECIAL**Allen & Hanburys, Ltd.  
Benger's Food, Ltd.  
Brand & Co., Ltd.  
Callard & Co.  
Fairchild Bros. & Foster  
Frame Food Co., Ltd.  
Lemco, Ltd.  
Menley & James, Ltd.  
Miel Manufacturing Co.  
Natural Food Co., Ltd.  
Wander, A.**FORMALDEHYDE**

Bart, Bonilton &amp; Haywood

**FULLER'S EARTH**

Mumford, G. S., &amp; Sons

**FUMIGATORS**

Sanitas Co., Ltd.

**GELATIN AND GLUE**

Boehm, F., Ltd.

**GLAUBER'S SALT**Bramwell, E., & Son  
Howards & Sons, Ltd.  
Nichols Chemical Co., Ltd.**GLYCERIN**Boehm, F., Ltd.  
Price's Patent Candle Co.**GOLD PAINT**

Judson, D., &amp; Son

**GRINDERS**Allen, Stafford, & Sons, Ltd.  
Goodall, Backhouse & Co.  
Willows, Francis B. & T.**HAIR PREPARATIONS**Capsuloid Co., Ltd.  
Chesebrough Manfg. Co.  
Dralle, Georg.  
Edwards' "Harlene" Co.  
Harker, Stagg & Morgan  
J.S.W. Preparations, Ltd.  
"Nyto" Co.  
Robare's Aureoline  
Rowland, A., & Sons  
Woolleys, Ltd.**HAT DYES**

Whitaker &amp; Co.

**HAT RENOVATORS**

Christy, T., &amp; Co.

**HERBS**

Potter &amp; Clarke

**HOMOEOPATHIC MEDICINES**Ashton & Parsons, Ltd.  
Keene & Ashwell, Ltd.  
Leath & Ross**HOT-WATER BOTTLES**Berliner, Arthur  
Brge, Warren & Ridgley  
Maw, S., Son & Sons  
May, Roberts & Co.  
Southall Bros. & Barclay  
Wood, Vincent**HOTELS**Esmond Hotel  
Kingsley Hotel  
Thackeray Hotel**HYDROGEN PEROXIDE**May & Baker, Ltd.  
Sanitas Co., Ltd.  
Tyrer, T., & Co., Ltd.**HYPOPHOSPHITES**May & Baker, Ltd.  
Merck, E.  
Tyrer, T., & Co., Ltd.**INHALERS**Christy, T., & Co.  
Fecher, M. J.  
Sangers**INK**Bewley & Draper, Ltd.  
Hickisson, A. B.  
Hooper, W., & Co.**INSECT POWDER**Boehm, F., Ltd.  
Carmichael, F. J., & Co.  
Smith, B. A., & Co.**INSECTICIDES**Acme Chemical Co., Ltd.  
Smith, B. A., & Co.  
Tomlinson & Hayward, Ltd.  
Woolleys, Ltd.**IODINE AND IODIDES**Howards & Sons, Ltd.  
Merck, E.  
Morson, T., & Son**ITROSYL**

Fletcher, Fletcher &amp; Co.

**JARS AND POTS**Brefitt, E., & Co., Ltd.  
Cook, A., & Co.  
Johnsen & Jorgensen, Ltd.  
Kilner Bros., Ltd.  
Maw, S., Son & Sons  
Poths, H., & Co.  
Reuter, R. J.  
Rosenstiel, B.  
Stipendium Stopper Co.  
Taylor, F. H., & Sons  
Toogood, W., Ltd.**LACTOBACILLINE PRODUCTS**Allen & Hanburys, Ltd.  
Cox, Arthur H., & Co., Ltd.  
Martindale, W.  
Parke Davis & Co.  
Wilcox, Jozeau & Co.**LAMPS, DISINFECTING**McDougall Bros  
Roberts, Cornford & Co.**LANOLINE**Burroughs Wellcome & Co.  
Christy, T., & Co.  
Sangers  
Wilson & Mansfield**LANTERNS**

Butcher, W., &amp; Sons

**LARD**Chemists' Co-operative Wholesale  
Ewen, J., & Sons**LIME JUICE AND CORDIAL**Evans Sons Lescher & Wehh  
Goodall, Backhouse & Co.  
Idris & Co., Ltd.**LINSEED, CRUSHED, ETC.**Allen, Stafford, & Sons  
Mumford, G. S., & Sons**LINTS**

Vernon &amp; Co., Ltd.

**LIQUORICE JUICE**Boehm, F., Ltd.  
British Drug Houses, Ltd.  
Evans, Gray & Hood  
Evans Sons Lescher & Wehh, Ltd.  
Horner & Sons  
Jackson, E. E.  
Mumford, G. S., & Sons**LIQUORS, CONC., ETC.**Allen, Stafford, & Sons, Ltd.  
Fletcher & Fletcher & Co.  
Hewlett, C. J., & Son  
Robinson, B., & Co.**LITHIA SALTS**British Drug Houses, Ltd.  
May & Baker, Ltd.  
Merck, E.**LOOFAHS**

Cresswell Bros. &amp; Schmits

**LOZENGES**Allen & Hanburys, Ltd.  
Cox, A. H., & Co., Ltd.  
Denoual, J., & Co.  
Guest, Thos., & Co.  
Jackson, E. E.  
Potter & Clarke  
Raimes & Co.  
Warrick Bros.**MACHINERY, PHARMACAL**Allen & Hanburys, Ltd.  
Bennett, E., & Son, Ltd.  
Bennett, Sons & Shears, Ltd.  
Brown & Son  
Fecher, M. J.  
Gardner, Wm., & Sons, Ltd.  
"Hercules" Meat Juice Press  
Pindar, J. W., & Co.  
Roberts' Patent Filling Machine  
Co.  
Smith, B. A., & Co.  
Stokes, F. J., Machine Co.  
Thompson & Capper (Stokes)  
Wilkinson, S. W., & Co.**MALT EXTRACT AND PREPS.**Allen & Hanburys, Ltd.  
Baiss Bros. & Stevenson, Ltd.  
Blackie, R.  
British Dia Malt Co.  
Burroughs Wellcome & Co.  
Evans Sons Lescher & Webb  
Hewlett, C. J., & Son  
Hoff's Malt  
Lorimer & Co., Ltd.  
Oppenheimer, Son & Co., Ltd.  
Paine & Co., Ltd.  
Southall Bros. & Barclay, Ltd.  
Squire & Sons  
Woolley, Jas., Sons & Co., Ltd.  
Wright, Layman & Umney**MAGNESIA AND ITS SALTS**Henry, T. & W.  
Howards & Sons, Ltd.  
May & Baker, Ltd.  
Washington Chemical Co.**MARKING INK**Hickisson, A. (Bond's)  
Hooper, W., & Co.**MEASURES**

Taylor, F. H., &amp; Sons

**MEAT EXTRACT**Armour & Co., Ltd.  
Brand & Co., Ltd.**MEDICINE CHESTS**Burroughs Wellcome & Co.  
Keene & Ashwell, Ltd.  
Leath & Ross  
Lloyd, T. Howard, & Co.  
Parke, Davis & Co.**MENTHOL CONES**Maw, S., Son & Sons  
Shirley Bros., Ltd.**MERCURIALS**Howards & Sons, Ltd.  
May & Baker, Ltd.  
Merck, E.  
Tyrer, T., & Co., Ltd.**METEOROLOGICAL SETS**

Darton, F. &amp; Co.

**METHYLATED SPIRIT**Burrough, J., Ltd.  
Preston's Liverpool Distillery  
Randall & Son, Ltd.**MILK APPARATUS**Hawksley, T.  
Zimmermann, C., & Co.**MILK BYPRODUCTS**

Casein, Ltd.

**MINERAL WATERS AND SALTS**Apollinaris Co., Ltd.  
British Drug Houses, Ltd.  
Burrow, W. & J. (Malvern)  
Hughes, E. Griffiths  
Ingram & Royle, Ltd.  
Vichy (State Springs)**NAPHTHAS**

Burt, Boulton &amp; Haywood

**OILS, ESSENTIAL**Allen, Stafford, & Sons, Ltd.  
Alliance Drug & Chem. Co.  
Baiss Bros. & Stevenson  
Boake (A.), Roberts, & Co., Ltd.  
Bush, W. J., & Co., Ltd.  
Chris, Antoine  
Cresp-Martineng  
Horner & Sons  
Jakson, J., & Co.  
Lautier Fils  
London Essence Co.  
Muhlethaler, Th., Ltd.  
Pasquale, S. F. de, & Fratelli  
Ransom, W., & Son  
Roure-Bertrand fils  
Schimmel & Co.  
Schmoller & Bompard  
Spencer, J., Son & Co.  
Spurway et Cie.  
Stevenson & Howell, Ltd.  
Todd, A. M., Co.  
Wright, Layman & Umney  
Zimmermann, A. & M.**OILS, FATTY, ETC.**Allen, Stafford & Sons, Ltd.  
Carmichael, F. J., & Co.  
Cresp-Martineng  
Price's Patent Candle Co.  
Smith, B. A., & Co.**OILS, MINERAL**Carmichael, F. J., & Co.  
Price's Patent Candle Co.  
Wright, Layman & Umney**OINTMENTS**Blackie, R.  
Chemists' Co-operative Wholesale  
Oldfield, Pattinson & Co.**OPTICAL GOODS**Botwright & Grey  
Darton, F., & Co.  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Nitsche & Günther  
Raphael's, Ltd.**OPTICAL INSTRUCTION**

British Optical Institute

**PACKED GOODS**

(See WHOLESALE)

**PALATINOLIDS**

Oppenheimer, Sons &amp; Co.

**PASTILLES**Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Baiss Bros. & Stevenson  
Burroughs Wellcome & Co.  
Denoual, J., & Co.  
Evans Sons Lescher & Wehh  
Warrick Bros.**PATENT AGENT**

Barker, R. W.

**PERFUME MATERIALS**Bush, W. J., & Co., Ltd.  
Chris, Antoine  
Compagnie Morana  
Cresp-Martineng  
Haliilor Co.  
Lautier Fils  
Mallmann, W.  
Muhlethaler, Th., Ltd.  
Murray, O., & Co., Ltd.  
Schimmel & Co.  
Shipkoff & Co.  
Spencer, J., Son & Co.  
Spurway et Cie.  
Treant, R. C., & Co.  
Zimmermann, C., & Co.**PERFUMES**Allen & Hanburys, Ltd.  
Barclay & Sons, Ltd.  
Bredenbach & Co.  
Bronnley, H., & Co., Ltd.  
Bnsh, W. J., & Co., Ltd.  
Christy, T., & Co.  
Chuit, Naef & Co.  
Cresp-Martineng  
Dralle, Georg.  
Erasmo Co., Ltd.  
Evans Sons Lescher & Wehh, Ltd.  
Haliilor Co.  
Hewlett, C. J., & Son  
Hovenden, R., & Sons, Ltd.  
Lescol Perfumery Co.  
McCracken, J. & R.  
Maw, S., Son & Sons  
Newbery, F., & Sons, Ltd.  
Piver, L. T.  
Qneleh, H. C., & Co.  
Reuter, R. J.  
Southall Bros. & Barclay  
Spencer, J., Son & Co.  
Spurway et Cie.  
To-Kalon Mfg. Co.  
Warrick Bros.  
West, T.  
Zenobia Laboratories**PESSARIES**Burge, Warren & Ridgley  
Rendell, W. J.**PETROLEUM EMULSION**

British Drug Houses, Ltd.

**PETROLEUM JELLY**

Chesebrough Mfg. Co.



**PHOTO. CHEMICALS**

Boehringer, C. F., & Soehne  
Burroughs Wellcome & Co.  
Leckyer, J. E.  
Merck, E.

**PHOTO. GOODS**

Barclay & Sons, Ltd.  
Butcher, W., & Son, Ltd.  
Darton, F., & Co.  
Evans Sons Lescher & Webb  
Halifax Photographic Co.  
Ilford, Ltd.  
Lennon, Ltd.  
May, Roberts & Co.  
Murdoch, John, & Co.  
Newbery, F., & Sons, Ltd.

**PHOTO. WORK**

Express Developing Co.

**PILL MAKERS**

Allen & Hanburys, Ltd.  
Asche, C. F., & Co.  
Bishop, Alfred, Ltd.  
British Drug Houses, Ltd.  
Cox, A. H., & Co., Ltd.  
Davies, Sons & Co.  
Evans Sons Lescher & Webb, Ltd.  
Hewlett, C. J., & Son  
Howards & Sons, Ltd.  
Lloyd, T. Howard, & Co.  
McKesson & Robbins  
Parke, Davis & Co.  
Pill, Tablet, & Capsule Alliance  
Southall Bros. & Barclay  
Standard Tablet & Pill Co.  
Wand Mfg. Co.  
Warner, W. R., & Co.  
Woolley, J., Sons & Co., Ltd.

**PLASTERS**

Allcock Mfg. Co.  
Berliner, Arthur  
Beiersdorf, P., & Co.  
Dalmas, A. de St., & Co.  
Leslies, Ltd.  
Maw, S., Son & Sons  
Solport Bros.

**POLISHES (VARIOUS)**

Bradley & Bourdas  
Judson, Daniel, & Son  
Oskey, J., & Son, Ltd.

**PRINTERS**

Ford, Shapland & Co.  
Harrison & Waide  
London & County Printing  
Works  
Smith, W. H., & Son  
Townsend, J., & Sons

**PROPRIETARY ARTICLES**

Anglo-American Drug Co.  
Anglo-American Pharmaceutical  
Co., Ltd.  
Ashton & Parsons, Ltd.  
Atkinson & Barker  
Barclay & Sons, Ltd.  
Beecham, T.  
Beiersdorf, P., & Co.  
Bile Bean Mfg. Co.  
Box, W. H.  
British Drug Houses, Ltd.  
Capsuloid Co., Ltd.  
Cardinal Mfg. Co., Ltd.  
Chameleon Oil Co.  
Christy, T., & Co.  
Coleman & Co., Ltd.  
Congreve, G. T.  
Cox, A. H., & Co., Ltd.  
Curry, Henry  
Daggett & Ramsdell  
Daisy, Ltd.  
Davenport, J. T., Ltd.  
Day & Sons (Crewe), Ltd.  
Day, Son & Hewitt  
Denonal, J., & Co.  
Edwards, W., & Son  
Elliman, Sons & Co.  
Evans Sons Lescher & Webb  
Faulding, F. H., & Co.  
Fellows' Syrup  
Fennings, Alfred  
Ferris & Co.  
Fulford, C. E., Ltd.  
Genin, L., & Co.  
Goodall, Backhouse & Co.  
Grapelax, Ltd.  
Greiff, R. W., & Co.  
Guy's Tonic Co.  
Heala Manufacturing Co.  
Henry, T. & W.  
Hovenden, R., & Sons, Ltd.  
Hughes, E. Griffiths  
Ichthyol Co.  
Iron-Ox Rem. Co., Ltd.  
Kaufmann, Dr.  
Kay Bros., Ltd.

**PROP. ARTICLES—cont.**

Kutnow, S., & Co., Ltd.  
Lalor's, Dr. Phosphodyne  
Lambert Pharmacal Co.  
Lofthouse & Saltmer  
Lorimer & Co., Ltd.  
Mandall & Co., Ltd.  
May Roberts & Co.  
Menley & James, Ltd.  
Miol Manufacturing Co.  
Newbery, F., & Sons, Ltd.  
Odol Chemical Works  
Owbridge, W. T., Ltd.  
Pollantin (Schimmel & Co.)  
Resinol Chemical Co.  
Richards, J. M., & Sons  
Rnbwel Co.  
Sangers'  
Savarese's Capsules (Evans)  
Schimmel & Co.  
Squire & Sons  
Standard Tablet & Pill Co.  
Stedman's Teething Powders  
Thompson & Capper  
To-Kalon Mfg. Co.  
Tunbridge & Wright  
Wilcox, Jozeau & Co.  
Wood's Peppermint Chre  
Zotos, Ltd.  
(See also DENTIFRICES and TOILET  
ARTICLES)

**PULVELLÆ**

Warrick Bros.

**PULVERETTES**

Oppenheimer, Son & Co., Ltd.

**PUMPS**

Berkefeld Filter Co., Ltd.

**QUININE AND SALTS**

Boehringer, C. F., & Soehne  
Carmichael, F. J., & Co.  
Howards & Sons, Ltd.

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Anto-Strop Safety Razor Co.

**RENNET**

Fullwood, R. J., & Bland  
Oldfield, Pattinson & Co.

**RESINS AND RESINOIDS**

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Allen & Hanburys, Ltd.  
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Haywood, J. H.  
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Saccharin Corporation, Ltd.

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**SCRUBBERS**

Lange's, H., Successors

**SEA SALT**

Tidman & Son, Ltd.

# SPONGES

From 4/- doz. to 8/6 each.

FROM STOCK.

You are invited to select your own goods  
from our Show-Room on Ground Floor.

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27 & 28 Charterhouse Square, London, E.C.

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Zotos, Ltd.**SELTZOGENES**

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Sanitas Co., Ltd.  
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Cleworth, J.  
Evans Sons Lescher & Webb, Ltd.  
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Sangers'  
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Bishop, Alfred, Ltd.  
British Drug Houses, Ltd.  
Cox, A. H., & Co., Ltd.  
Davies, Sons & Co.  
Duncan, Floekhart & Co.  
Evans Sons Lescher & Webb  
Howards & Sons, Ltd.  
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Lloyd, T. Howard, & Co.  
Martindale, W.  
McKesson & Robbins  
Parke, Davis & Co.  
Pill, Tablet, & Capsule Alliance  
Potter & Clarke  
Standard Tablet & Pill Co.  
Thompson & Capper  
Ward Manufacturing Co.  
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Boulton, J., & Co.  
Breidenbach & Co.  
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Burroughs Wellcome & Co.  
Chesebrough Mfg. Co.  
Christy, T., & Co.  
Cook, E., & Co., Ltd.  
Daggett & Ramsdell  
Daisy, Ltd.  
Edwards' Harlene Co.  
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Lloyd, A. S. (Hovenden)  
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Robertson, A., & Sons  
Tomlinson & Hayward**WHOLESALE DRUGGISTS**Allen & Hanburys, Ltd.  
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British Drug Houses, Ltd.  
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Chemists' Co-op. Wholesale  
Evans Sons Lescher & Webb  
Ferris & Co.  
Goodall, Backhouse & Co.  
Harker, Stagg & Morgan  
Hewlett, O. J., & Son  
Hornor & Sons  
Lennon, Ltd.  
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Potter & Clarke  
Raines & Co.  
Sankyo & Co.  
Smith, Stanistreet & Co.  
Southall Bros. & Barclay  
Warner, W. R. (Newbery)  
Willows, Francis B. & T.  
Woolley, J., Sons & Co.  
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# STEVENSON & HOWELL'S

## FRUIT & SOLUBLE ESSENCES

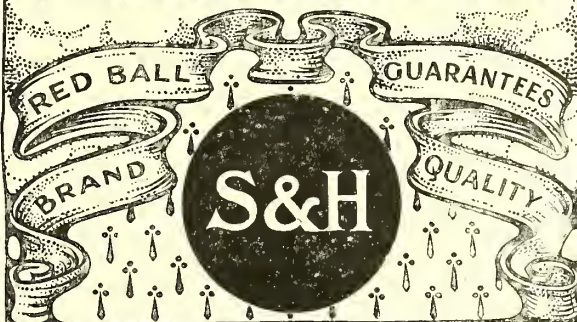
FOR  
AERATED WATERS,  
CORDIALS, SYRUPS,  
& NON-EXCISABLE  
BEVERAGES.

IN THE  
FERMENTED  
GINGER BEER  
COMPETITION

AT THE  
BREWERS' - -  
- EXHIBITION,  
1908.

The first prize of the competition was taken by Ginger Beer brewed mainly from Stevenson and Howell's Soluble Essence of Stone Ginger Beer (Red Ball Brand). Full particulars upon application. - - - -

FINEST FLAVOUR,  
HIGHEST DEGREE OF  
CONCENTRATION,  
PERFECT SOLUBILITY.



IN THE  
LEMONADE  
COMPETITION

AT THE  
BREWERS' - -  
- EXHIBITION,  
1908.

Lemonade made from Stevenson & Howell's Soluble Essence of Lemon (Red Ball Brand), gained more marks for Taste and Bouquet (the only characteristics of Lemonade depending upon the Soluble Essence of Lemon used, the other marks being given for physical properties), than the Lemonade to which the highest award was given.

Stevenson & Howell Ltd,  
Standard Works, Southwark St.,  
LONDON. S.E.

[See also following page.]



# **Value for Money**

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IN CONNECTION WITH  
THE PURCHASE OF

# **Essential Oils.**

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**W**E again direct the attention of all consumers of Essential Oils to the importance of the guarantee given in our Price List, as follows:—

## **PURE ESSENTIAL OILS.**

All Oils grouped under this heading are guaranteed to be absolutely pure, and are under the direct analytical control of Mr. E. J. PARRY, B.Sc., F.I.C., F.C.S. (Author of "The Chemistry of Essential Oils and Artificial Perfumes"), Thanet House, 56a Great Dover Street, London, S.E. Buyers are at liberty to send samples from our deliveries of any of these Oils to Mr. PARRY for analysis at our expense, and in case of dispute his analysis is to be binding on buyers and ourselves.

It is obvious that some sort of guarantee for buyers is necessary in view of the fact that Essential Oils are subjected to every conceivable form of adulteration, the sole object of which is to secure to the vendors an extra profit at the expense of the buyer. Highly-trained chemists now obtain remunerative employment in experimenting with a view to discovering chemical compounds which can be used as adulterants of Essential Oils. These adulterants cheapen the Oils, but do not interfere with the *usual* tests for purity, and therefore cannot be easily detected.

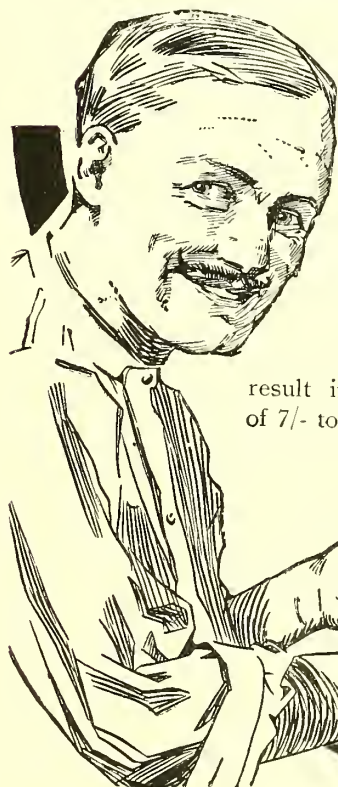
We shall be glad to give particulars of the adulterations we have recently met with to anyone interested, also to submit samples of any of our Pure Essential Oils for approval.

**STEVENSON & HOWELL, LTD.**  
**Southwark Street, London.**

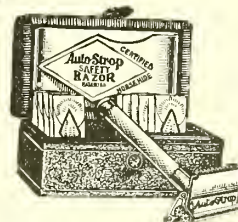


# No dull blades —and no need for new ones— AutoStrop SAFETY RAZOR Strops Itself

You must strop a razor to keep it sharp—any barber will tell you that. The self-contained stropping arrangement of the AutoStrop Safety Razor enables you to keep a hair-edge on each blade for many months. Remember—no skill or experience is necessary to keep AutoStrop blades in perfect condition. You also avoid the buying of new blades necessary with all non-stropping razors, and thus the AutoStrop Safety Razor pays for itself in a year. There is no handling of the blade or taking anything apart for either stropping or cleaning.



Every chemist has a number of customers to whom the advantages of the AutoStrop Safety Razor over non-stropping razors will appeal with sufficient force to induce them to spend the necessary guinea. It takes you but a few minutes to demonstrate the AutoStrop Safety Razor, the result in most cases being an addition of 7/- to your profits.



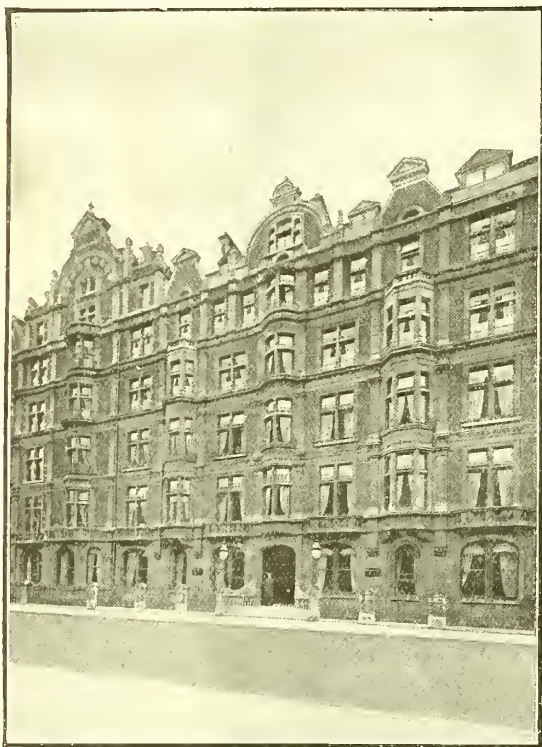
## PRICES.

RETAIL	...	...	21/- net.
WHOLESALE			
3 doz. lots	...	14/- each.	
smaller quantities		14/9	„

Address your order to your Wholesaler, or to

**AutoStrop Safety Razor Co. Ltd.**  
61 NEW OXFORD STREET, LONDON, W.  
Also at NEW YORK, MONTREAL, DUBLIN & PARIS.

# Two Popular Hotels in Central London.



THACKERAY HOTEL.



KINGSLEY HOTEL.

OPPOSITE THE BRITISH MUSEUM.

## THACKERAY HOTEL

GREAT RUSSELL STREET, LONDON.

NEAR THE BRITISH MUSEUM.

## KINGSLEY HOTEL

HART STREET, BLOOMSBURY SQUARE, LONDON.

*See opposite page.*



# Thackeray and Kingsley Hotels.

**T**HESE Temperance Hotels are situated close together in one of the healthiest districts of London. They are very near the BRITISH MUSEUM, the THACKERAY HOTEL being directly opposite, and the KINGSLEY within two minutes' walk of that famous place of interest.

The THACKERAY and the KINGSLEY HOTELS are modern in all their arrangements, convenient, substantial and well-appointed. The Public Rooms at both Hotels have recently been re-arranged, and the KINGSLEY HOTEL has been enlarged by the addition of new buildings in the rear, which include fifty quiet Bedrooms and a Second Dining Room.

They are furnished with careful regard to comfort, and the aim has been to supply the conveniences and advantages of the very large licensed hotels at moderate charges. Both the THACKERAY and KINGSLEY HOTELS are fitted with Lifts to all Floors, lighted throughout by electricity and have Bathrooms on every floor.

*Lounges and spacious Dining, Drawing, Writing, Reading, Billiard and Smoking Rooms.  
Perfect Sanitation. Floors Fireproof throughout. Night Porters. Telephone.*

The Cuisine and general arrangements of each of the Hotels receive the undivided attention of able Manageresses.

These Hotels are most favourably situated with regard to the Houses of Parliament, Law Courts, Art Galleries and Theatres. In fact, they are within easy walking distance or short cab drive of nearly all places of interest frequented by those visiting London. They are almost equi-distant from the Great Railways, North, South, East, and West; and the Museum and Holborn Stations on the Electric Railways being so close at hand, bring the Hotels to within seven minutes of the City, Royal Exchange, and Bank of England; while the Agricultural Hall, South Kensington, Earl's Court, Olympia, Shepherd's Bush, &c., can be reached within 15 to 30 minutes.

Intending visitors are requested to send an intimation, if possible, by post or telegram prior to arrival, that rooms may be reserved.

**TELEGRAPHIC ADDRESSES:** { THACKERAY HOTEL: KINGSLEY HOTEL:  
"THACKERAY LONDON." "BOOKCRAFT LONDON."

**BEDROOMS (including attendance) ... from <sup>s.</sup> 3 <sup>d.</sup> 6 to <sup>s.</sup> 6 <sup>d.</sup> 0**

**Inclusive charge for Bedroom, Attendance, Table d'Hote Breakfast  
and Dinner, from 8/6 to 10/6 per day.**

**FULL TARIFF AND TESTIMONIALS ON APPLICATION.**

## Extracts from Visitor's Book AT THE THACKERAY HOTEL.

**J. O. R. Macdonald, Esq., W.S., Dumfries.**—"I very gladly do a thing I never did before—record in a book of this kind my entire satisfaction with the comforts of this Hotel."

**The Rev. Canon J. Clare Hudson, Horncastle.**—"Am much pleased with the management of this Hotel. It is very comfortable. The library is an interesting feature."

**Dr. Barnes, Bank House, Bolton.**—"Delighted with the arrangements. Perfect comfort and quietude."

**John Ingram, Esq., Glasgow.**—"I commend to all seekers after comfort, cleanliness, courtesy and home qualities, this house—The Thackeray."

## Extracts from Visitor's Book AT THE KINGSLEY HOTEL.

**W. B. Mason, Esq., Leeds.**—"The Kingsley is a model Hotel—a pattern for Hotels of the 20th Century to copy."

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**W. J. Fitz-Patrick, Esq., and Family, Liverpool.**—"The most comfortable Hotel we have ever stayed at. Admirably managed."

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AN ADDITIONAL  
SERIES OF HIGH CLASS

# Packed Drugs

SUPPLIED TO  
CHEMISTS ONLY



Allen & Hanburys Ltd.  
LONDON.





(Non-liable) **PACKED DRUGS** (Non-liable)

Bearing Chemist's own Name and Address on Labels.

(SUPPLIED ONLY TO CHEMISTS)

**BLAUD'S PILLS**

Fig. 186

Supplied in white glass square bottles, packed in grey cartons, with fancy lithograph labels.

Also Fig. 187. "Border" series labels, with fancy wrappers (new style).

Prices:  $\frac{1}{2}$  gross 100 1 gross  
 Pearl 3/3 4/- 4/9 doz.  
 Sugar 3/6 4/3 5/- "  
 Gelatine 4/3 5/- 5/9 "

**CASTOR OIL**

Fig. 218

Supplied in Wood's panelled flats, leather capped, fancy "Border" series labels, (new style).

Also Fig. 217. Black and white lithograph labels.

Tasteless 2 oz. 2/9; 4 oz. 4/-; 6 oz. 5/3;  
 8 oz. 7/- doz.  
 Cold Drawn 2 oz. 2/6; 4 oz. 3/6; 6 oz. 4/3;  
 8 oz. 5/6 doz.

**GLYCERIN**

Fig. 371

Supplied in Wood's white glass special bottles, "Border" series labels (new style). Also Fig. 374. Coloured lithograph labels. 2 oz. (pond.) 3/-; 4 oz. 4/9; 8 oz. 7/9 doz.

**EUCALYPTUS OIL**

Fig. 357

Supplied in Wood's white glass flats, fancy "Border" series labels (new style). Also Fig. 362. Coloured lithograph labels. Ol. B. P. 1 oz. 3/3; 2 oz. 5/6; 4 oz. 10/- doz.

**COMPOUND SYRUP OF THE HYPOPHOSPHITES**

Fig. 574

Supplied in Wood's r.c. dispensing flats. Fancy "Border" series labels (new style). Also Fig. 580. Black and white lithograph labels.

Prices: 3 oz. f.c. 5/-; 4 oz. 6/-; 6 oz. 8/-; 8 oz. 10/3 doz.

**COD LIVER OIL**

Fig. 316

Supplied in Wood's panelled flats or ovals, leather capped, fancy "Border" series labels (new style).

Also Fig. 315. Coloured lithograph labels. Fig. 314.

Black and white lithograph labels.

Prices:  
 Finest Norwegian, 4 oz. 3/4; 8 oz. 5/3;  
 16 oz. 9/- doz.

**CHEMICAL FOOD**

Fig. 331

Supplied in Wood's r.c. dispensing flats, leather capped, fancy "Border" series labels (new style).

Also Fig. 330. Coloured lithograph labels, and Fig. 332. Black and white lithograph labels.

Prices: 4 oz. (fluid) 3/4; 6 oz. 4/4;  
 8 oz. 5/4; 16 oz. 9/3 doz.

All Prices are subject to Trade Discount.

Cartons 9d. per doz. extra.

Samples and complete Illustrated Price List forwarded on application.

**Allen & Hanburys Ltd., London.**





## (Non-liable) PACKED DRUGS (Non-liable)

Bearing Chemist's own Name and Address on Labels.

### CASCARA FLUID EXTRACT

Supplied in Wood's white glass flats.  
Fig. 245, Border series labels (new style).  
Fig. 247, coloured lithograph labels.  
Prices: 2 oz. 4/-; 4 oz. 7/- doz.

### HÆMOGLOBIN CAPSULES

Supplied in round tins, packed in cartons.  
Fig. 404, black and gold lithograph labels.  
Strength 2 and 3 grains.  
Prices: 6/6 and 7/3 doz.

### HEADACHE CACHETS

Supplied in boxes of 1 doz.  
Fig. 396, letterpress labels.  
Fig. 397, Border series labels (new style).  
Price: 7/6 doz. boxes.

### SALINE EFFERVESCENT

Supplied in Wood's plug stoppered  
Cheltenham.  
Figs. 535, 537, 538, 539, coloured wrappers  
and cartons. Also Fig. 534, coloured labels  
and wrappers (new style).  
Prices: (wrapped) 6 oz. 6/6; 8 oz. 8/6;  
12 oz. 12/6 doz.

### SEIDLITZ POWDERS

Each Powder hand weighed. Supplied  
in boxes.  
Fig. 552, coloured lithograph labels.  
Fig. 553, Border series labels (new style).  
Price: 5/6 doz. boxes.  
Also loose at 5/- gross.

### SANTAL PERLES

Supplied in glass vials, containing 42  
perles, labelled and wrapped.  
Fig. 548.  
Price: 10/6 doz.

### SELTZOGENE POWDERS

Hand weighed. 12 charges in box.  
Fig. 570, coloured lithograph labels.  
Fig. 571, Border series labels (new style).  
Prices: 3-pint 14/6; 5-pint 19/6; 8-pint  
30/- doz. boxes.

### SPIRITS OF CAMPHOR

Supplied in Wood's white glass flats.  
Fig. 634, coloured lithograph labels.  
Fig. 633, fancy letterpress labels.  
Prices: 1 oz. 4/6; 2 oz. 7/6; 4 oz. 13/- doz.

All Prices are subject to Trade Discount. Cartons 9d. per doz. extra.

Samples and complete Illustrated Price List forwarded on application.

## Allen & Hanburys Ltd., London.





## TOILET PREPARATIONS

Bearing Chemist's own Name and Address on Labels.

### BATH POWDER

Fig. 192

Supplied in wooden barrels. Fancy coloured wrappers, "Border" series (new style.)

Prices: 8 oz. 4/3 doz.; 16 oz. 6/- doz.

Also Fig. 191. "Iris" series coloured wrappers. Cardboard barrels.

Prices: 8 oz. 3/9 doz.; 16 oz. 5/6 doz.

### FACE POWDER

Fig. 363

Supplied in round cornered boxes, with fancy coloured "Border" series labels (new style), assorted in three shades, White, Pink, Rachel.

Price: 3 oz. (by weight) 7/6 doz.

Also Powders, Pomades, etc.

### SALOL LIQUID DENTIFRICE

Fig. 513

Supplied in white opals, sprinklers. Coloured lithograph labels, "Iris" series. Also Fig. 515. Fancy labels, "Border" series (new style.)

Prices: 2 oz. 9/6 doz.; 4 oz. 16/- doz.

### SALOL DENTIFRICE

Fig. 602

Supplied in round tins, art green, with fancy coloured labels, "Border" series (new style.)

Price 3/- doz.

Also Antiseptic, Carbolic, Hazel Bloom, Quinine, Rose, Saponaceous, Thymol, Violet, at same price.

### NURSERY HAIR LOTION

Fig. 486

Supplied in actinic green flats, leather capped, coloured lithograph labels.

Also Fig. 487. Fancy coloured labels, "Border" series (new style.)

Prices: 4 oz. 3/6 doz.; 8 oz. 6/- doz.

### WATER SOFTENER

Fig. 609

Supplied in cardboard barrels with fancy coloured "Iris" series wrappers.

Prices: 8 oz. 3/6 doz.; 16 oz. 5/6 doz.

Also Fig. 611. Wooden barrels, fancy coloured wrappers, "Border" series (new style.)

Prices: 8 oz. 4/- doz.; 16 oz. 6/- doz.

### POUDRE DE RIZ

Fig. 502

Supplied in fancy round-cornered boxes, with fancy coloured lithograph labels.

"Iris" series, supplied in three shades, White, Pink, Rachel.

Price: 3 oz. (by weight) 3/6 doz.

Also Creams, Tooth Pastes, etc.

Samples and complete Illustrated Price List forwarded on application.

**Allen & Hanburys Ltd., London.**

# The Lister Institute

OF PREVENTIVE MEDICINE

## ANTITOXINS, VACCINES, &c.

### Diphtheria Antitoxin.

Liquid, in tubes of 2,000 units.	
Two tubes in a case ... ..	per case 5/-
(Single tubes supplied if requested.)	
Liquid in tubes of 4,000 units (high potency) ... ..	per tube 10/-
Dried, in tubes of 4,000 units ... ..	per tube 5/-

### Tetanus Antitoxin.

Liquid, in tubes of 10 c.c., three tubes in each case ... ..	per case 12/-
(12 tubes necessary for a curative dose.)	
Dried, in tubes of 1 gramme (=10 c.c. liquid Serum) ... ..	per tube 4/-

### Anti-Streptococcic Serum

In tubes of 10 c.c., three tubes in case ... ..	per case 7/6
(Single tubes supplied if requested.)	
Diagnosis boxes with sterilised pipette in glass tube ... ..	each 1/-

### Anti-Dysentery Serum.

In tubes of 20 c.c. ... ..	per tube 5/-
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### Normal Serum (Horse).

In tubes of 10 c.c. ... ..	per tube 1/-
----------------------------	--------------

### Versin's Anti-Plague Serum.

In tubes of 20 c.c. ... ..	per tube 6/6
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### Haffkine's Plague Prophylactic.

Liquid, in tubes of 21 c.c. (7 doses) ... ..	per tube 6/-
--	--------------

### Coley's Fluid for Cancer.

In vials of 2 c.c. ... ..	per vial 5/-
---------------------------	--------------

### Anti-Staphylococcic Vaccines.

(a) From <i>Staphylococcus aureus</i> alone.	
(b) From mixed cultures of <i>Staphylococcus aureus</i> , <i>citreus</i> and <i>albus</i> .	
Per tube of $\frac{1}{2}$ c.c. ... ..	1/-
Per tube of 1 c.c. ... ..	1/6
Per tube of 2 c.c. ... ..	2/6

### Anti-Cholera Vaccine (KOLLE).

Per tube of 1 c.c. ... ..	2/-
Per tube of 5 c.c. ... ..	5/-

### Anti-Typhoid Vaccine.

Per tube of 1 c.c. ... ..	1/6
---------------------------	-----

### Tubercle Bacilli.

For making Emulsion for Opsonin testing, in tubes ... ..	each 5/-
--	----------

### Calf Vaccine Lymph.

Metal Capillary Tubes (one vaccination) ... ..	each 6d.
Per dozen tubes ... ..	5/-
In glass capillary tubes at the same prices.	

## FOR VETERINARY USE.

### Tuberculin.

In vials of 3 c.c. ... ..	per vial 1/-
---------------------------	--------------

### Mallein.

In vials of 3 c.c. ... ..	per vial 1/-
---------------------------	--------------

### Anti-Tetanus Serum.

(For Veterinary use only).	
In tubes of 10 c.c. ... ..	per tube 3/-

## TELEGRAPHIC CODE.

For convenience when ordering Antitoxins by telegram or cablegram, ALLEN & HANBURY'S have adopted the following short code.

ETA signifies Anti-Cholera Vaccine, one tube of 1 c.c.	OMICRON sig. Anti-Typhoid Vaccine, 1 c.c.	LAMBDA signifies Tetanus Antitoxin, Liquid, four cases containing 3 tubes of 10 c.c. in each case.
THETA .. Anti-Dysentery Serum, one tube of 20 c.c.	CHI .. Calf Lymph, one tube.	GAMMA .. Versin's Serum, one tube of 20 c.c.
NU .. Anti - Staphylococcic Vaccine (A), one tube of 1 c.c. prepared from <i>S. aureus</i> alone.	DELTA .. Coley's Fluid for Cancer, one vial.	
PI .. Anti - Staphylococcic Vaccine (B), one tube of 1 c.c. prepared from <i>S. aureus</i> , <i>citreus</i> and <i>albus</i> .	EPSILON,, Diphtheria Antitoxin, Liquid, one case of 2 tubes, 2,000 units in each.	SIGMA .. Anti-Tetanus Serum, (Veterinary), 10 c.c.
BETA .. Anti-Streptococcic Serum, one case of 3 tubes, 10 c.c. in each.	IOTA .. Diphtheria, Dried Serum, one tube of 4,000 units.	TAU .. Mallein (Veterinary), one vial of 3 c.c.
	ZETA .. Haffkine's Prophylactic, one tube of 21 c.c.	OMEGA .. Tuberculin (Veterinary) one vial of 3 c.c.

If more than one case is required, numerals should be added after the Code Word.

## WHOLESALE AGENTS:

# ALLEN & HANBURY'S Ltd.

## BETHNAL GREEN, LONDON, E.

Telegrams: "Allenburys London."

Telephone: No. 23 and 33 London Wall.

On Sundays, Holidays, and after 6 p.m.: "Vereburys London."



## Some "P., D. & Co." Preparations of special interest to Colonial Pharmacists.

**LIQUID EXTRACTS** and **FLUIDS** for conveniently and economically preparing **TINCTURES** that may be relied upon as of full B.P. strength. Require much less storage space and entail a much smaller outlay than an equivalent quantity of tinctures, whilst effecting a great saving in transport charges.

ACONITE	CAMPOR COMP.	DIGITALIS	HYDRASTIS	NUX VOMICA	SENEGA
BELLADONNA	CANNABIS INDICA	GELSEMIUM	HYOSCYAMUS	OPIUM	STRAMONIUM
BENZONIN COMP.	CARDAMOM COMP.	GENTIAN COMP.	JABORANDI	RHUBARB COMP.	SUMBUL
BUCHU	CINCHONA COMP.	GINGER	MYRRH	SQUILL	TOULU, &c.

**FLUID EXTRACTS** which are of Pharmacopœial strength and which, in addition, are severally standardised so as always to present the same degree of medicinal activity.

BELLADONNA	CINCHONA	ERGOT	HYDRASTIS	JABORANDI	PAIREIRA
CIMICIFUGA	COCA	HAMAMELIS	IPECACUANHA	NUX VOMICA	TARAXACUM, &c.

**COD LIVER OIL EMULSION.** R "B."—The ideal means of establishing a reputation for "Emulsion." In bulk, with free labels, or in various sizes with special labels.

**GELATIN CAPSULES,** sizes capable of holding from 1 to 30 grains of powdered rhubarb, etc. Easily filled. Most convenient and elegant for dispensing proprietary powders; effectually preserve their contents.

**GLYCEROLE OF PEPSIN.**—An agreeably-flavoured preparation of exceptional purity and digestive power. Forms clear mixtures with syrup, glycerin, aromatic waters, etc. About 50 per cent. stronger than Glycerinum Pepsini, P.B. In bottles of 80, 12, 8, and 4 fl. ounces.

**HYDROGEN PEROXIDE SOLUTION.**—The Kind that Keeps. Will not burst the bottles. The exceptional permanence of the "P., D. & Co." brand makes it the most satisfactory for retailing, and the most efficient for surgical, dental, toilet, or manufacturing purposes. In bottles of 16, 8, and 4 fl. ounces.

**SOLUTION FERROUS IODIDE, CONCENTRATED.**—A convenient and reliable means of preparing Syrup of Ferrous Iodide, B.P., by diluting with seven volumes of syrup. Keeps well. In bottles containing 4 ounces and 2 ounces by weight.

**WITCH HAZEL, CONCENTRATED DISTILLED EXTRACT.**—Specially rich in the active principles. The best for counter sale. In bulk, with free labels, or in various sizes with special labels.

**PARKE, DAVIS & Co., 50 Beak Street, Regent Street, LONDON, W.**

## 100% PROTECTED PROFIT.

*Prices of Eucryl Tooth Powder to the Trade.*

### OPENING ORDERS

BUYING PRICE.	£	s.	d.	SELLING PRICE.	£	s.	d.
3 doz. 6d. tins at 3/6 doz. ...	0	10	6	4 dozen at 6d. ...	1	4	0
1 doz. 6d. free (for counter display) - - -	-	-	-				
Free samples, showcards, etc. ...	-	-	-				
Carriage Paid ...	£0	10	6		£1	4	0

### REPEAT ORDERS.

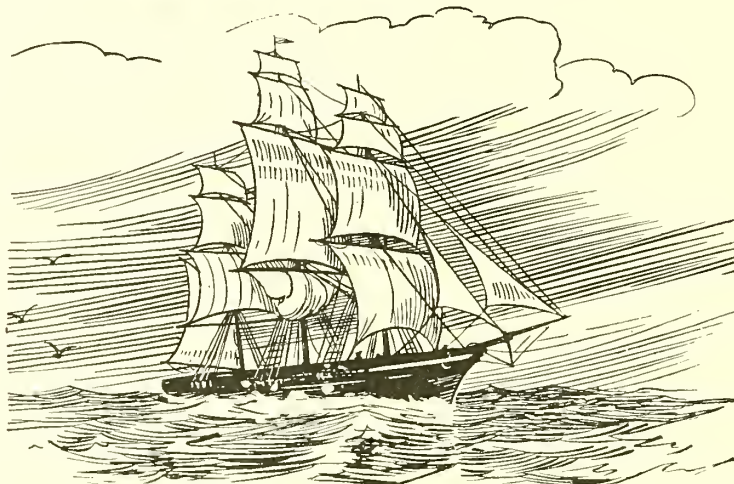
BUYING PRICE.	£	s.	d.	SELLING PRICE	£	s.	d.
3 doz. 6d. tins at 3/6 doz. ...	0	10	6	3½ dozen at 6d. ...	1	1	0
½ doz. 6d. free (for counter display) - - -	-	-	-				
Free samples, showcards, etc. ...	-	-	-				
Carriage Paid ...	£0	10	6		£1	1	0

## EUCRYL TOOTH POWDER.

*To be obtained from all the Principal Wholesale Houses, or direct from The Proprietors,*

**EUCRYL LIMITED, HULL.**

# One Hundred Years Ago !



SAILING SHIP AT THE BEGINNING OF THE LAST CENTURY.

THE world went very well then. Those were the days before the advent of steamships, railways, telegraphs or telephones, and the many other inventions of the past century. The foreign trade of this country was then carried on in sailing ships rarely exceeding 500 tons, and the English Channel was crossed by sailing packets which occasionally took three days to perform the voyage. [If this statement is doubted proof of its accuracy can be given.]

Business also was not characterised by that fierce competition which rules to-day, but just because of that very competition it is more than ever important to buy from a house whose reputation for fair dealing and the high quality of whose manufactures has been handed down from father to son and whose brand may now be found in every quarter of the globe ; such a house will consider its customers' interests as identical with its own. It pays, too, in the long run to buy the best drugs from a house on whom strict reliance can be placed, rather than be led away by so-called "cheapness." *Nothing* is cheap if it is unsatisfactory. (As an instance, the sophistication of essential oils has now become almost a fine art.) When you have created a high reputation for excellence of quality and your customers speak well of you, it is time to begin to think of larger premises. In selecting some good spécialités, let them be attractively put up, and spend a little money on local advertising.

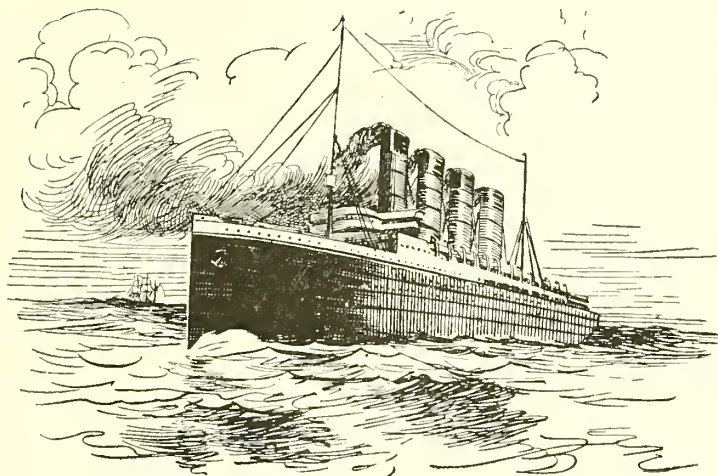
## Baiss Brothers & Stevenson, Ltd.

Manufacturing  
Chemists . . .

Jewry Street, London, E.C.



# And the Present Day !



QUADRUPLE SCREW TURBINE S.S. "MAURETANIA,"  
32,000 TONS, 70,000 H.P., 25 KNOTS.

You will obtain publicity and get talked about, and it is always the pushful man the public is anxious to support : the non-pushful man is neglected.

In our own advertisements you have probably at some time or other been attracted by something that appealed to you, in which case we shall welcome enquiry, and will endeavour to show that we can offer inducements to buyers in many directions. As an example, our Cod Liver Oil Emulsion is the best ever produced, being absolutely non-separable, and it is now offered with choice of a very wide range of labels, wrappers, &c., to chose from.

Colonial Chemists may think it worth while to compare our offers for Tinctures in bond, delivered *c.i.f. any port in the world*, with what they are paying elsewhere. It is now 26 years since we introduced these *c.i.f.* rates, the advantage being that the cost laid down of each individual line is seen at a glance. Some of our friends abroad receive orders, say, for 500-1000 oz. Strychnine, or may be in a position to influence orders for Methylated Ether, Sulphuric Acid, &c., with local Ice Factories in the East, and would like a *c.i.f.* rate at any port, or be desirous of quoting a Sanitary Board for various Disinfectants. Other Chemists might like to see samples of our Santal Perles or Dr. Mackenzie's Malted Food. A recent testimonial stated that this excellent food actually saved a child from death after "nearly every well-known food had been tried." We shall gladly welcome all similar enquiries.

## Baiss Brothers & Stevenson, Ltd.

Manufacturing  
Chemists . . .

**Jewry Street, London, E.C.**

# COX'S PILLS

SUGAR  
COATED.  
PEARL  
COATED.  
GELATINE  
COATED.

Anti-Fat.	Gout & Rheumatic.
Apiol & Steel.	Liver.
Backache & Kidney.	Nerve.
Bile Pills.	Neuralgia.
Blood Forming.	Pink Anæmia.
Complexion.	Steel & Pennyroyal.

Chemist's name and Address  
on three dozen lots assorted.

("A" SERIES.)

## NEW LINE IN PACKED PILLS

12 Varieties.



3 DOZ. ASSORTED 3/3 DOZ.

Forty in white glass tube, bearing beautifully lithographed labels and wrappers.

LACTIC TABLETS.—Messrs. Arthur H. Cox & Co., Ltd., of Brighton, have placed on the market Lactic Tablets, a tablet containing the active bacilli recommended by Professor Metchnikoff as newest form of remedial treatment for various forms of intestinal derangement. During a visit paid by a member of our staff to the bacteriological department of this firm he was much struck by the scrupulous cleanliness employed in the process of the germination of the bacilli and in the manufacture of these tablets. As our readers are well aware, these bacilli are incubated at a temperature which must vary but little, and in the drying-room here an even temperature of 37° C. is maintained.

When this treatment was first introduced the only form for administration was in the liquid state, a very troublesome matter to those who have business to attend to, so when the tablet was introduced its convenience became immediately apparent. Lactic tablets—as Messrs. Arthur H. Cox & Co., Ltd., have named them—can be rubbed down with a little milk and taken quite easily. In this way it will be seen the tablet is in advance of the culture as to portability and simplicity, yet at the same time it is quite as active. "Lactic Tablets" are put up in packages of 50, sufficient for a fortnight's treatment. These cost 18s. per dozen wholesale, and are attractively packed in boxes which may bear the name and address of the retailer.

BRITISH AND COLONIAL DRUGGIST,  
March 26, 1909.

LACTIC TABLETS.—Messrs. Arthur H. Cox & Co., Ltd., Brighton, are putting up lactic-acid bacilli in tablet form for producing "health milk." These are put up in boxes containing five tubes, each tube holding ten tablets. The boxes are sold retail at 2s. 6d., and can be had labelled with the chemist's name and address. Some particulars of the treatment are given in the company's advertisement in this issue. The directions accompanying the tablets are to the effect that one or two are to be crushed and taken with milk—a new idea, but we find them equally effective when taken after "sweets."

THE CHEMIST AND DRUGGIST,  
March 27, 1909.

LACTIC TABLETS.—Messrs. Arthur H. Cox & Co., Ltd., Brighton, have just added to their extensive list of varieties tablets containing a culture of vigorous strains of *Bacillus acidilactici* for internal use, and for the preparation of "Health Milk." Readers of *The Pharmaceutical Journal* are already familiar with the uses to which the lactic acid bacilli are now being put; it need only be mentioned that the administration of the bacilli has been shown to have a very marked beneficial effect in numerous cases of indigestion and diseases of the digestive organs generally, which have their origin in the presence of organisms producing organic poison in the digestive tract. The tablets brought out by Messrs. Cox have the proverbial convenience of tablets; they are stable, and when rubbed down with milk produce a liquid containing the culture in the highest state of activity. They are supplied in packages of fifty, sufficient for a fortnight's treatment, and are put up for sale in cardboard boxes, containing five tubes of ten tablets, labelled with chemist's name and address, at 18s. per dozen. Medical men may obtain a sample on receipt of a postage stamp.

PHARMACEUTICAL JOURNAL,  
March 27, 1909.



18/- Per dozen  
to Retail  
at 2/6 each.



ARTHUR H. COX & CO. LTD.  
PILL AND TABLET MANUFACTURERS, BRIGHTON.



PILLS

TABLETS



These Prices are for not less than 12-doz. Lots, assorted or otherwise.  
3-doz. Lots 3d. doz. increase.

Nickel Screw-capped Bottles, Each Containing	25 Pr. doz.	50 Pr. doz.	100 Pr. doz.	Price per 1,000	Nickel Screw-capped Bottles, Each Containing	25 Pr. doz.	50 Pr. doz.	100 Pr. doz.	Price per 1,000
*ALOIN COMPOUND, Sugar-coated ...	2/-	3/6	—	4/-	*Ichthyol, gr. 2½, Sugar-coated ...	4/6	8/6	15/-	10/-
Ammon. Brom., gr. 5 ...	2/-	3/6	6/-	3/6	LACTATED PEPSINE ...	4/6	8/6	15/6	12/6
Antacid (Roberts'), gr. 5 ...	1/9	3/3	6/-	2/-	Laxative, Vegetable, Sugar-coated ...	3/6	6/-	10/6	7/-
Antifebrin, gr. 2 or gr. 3 ...	1/9	3/3	5/-	1/9	LITHIA Tablets, Effervescent (Bottles of 40)	7/3	—	16/-	—
Antipyrin, gr. 5 ...	3/6	5/6	10/-	6/6	LITHIA Tablets, Effervescent (Tales of 12)	3/3	—	—	—
Bismuth, Pepsine, and Charcoal ...	3/6	6/-	10/-	7/6	MERCURIC Potass. Iodide (1 to a pint= 1-1,000)	9/-	—	—	—
Bismuth and Soda ...	3/3	5/6	10/-	6/6	Mercury Perchloride (1 to a pint=1-1,000)	3/-	—	—	—
*Bland's Pill, gr. 4, Pink or White, Sugar- coated ...	1/10	3/3	4/6	3/-	Nitroglycerine, gr. 1-100 ...	2/-	3/6	6/-	3/6
*Bland's with Aloin ...	1/11	3/3	4/6	3/3	*Pepsine, gr. 2, Sugar-coated, B.P. ...	3/-	5/-	9/-	6/-
*Bland's with Arsenic 1-100 ...	2/-	3/6	6/6	3/3	*Pepsine, gr. 3, B.P., Sugar-coated ...	3/6	6/-	10/-	8/-
*Bland's with Arsenic 1-64 ...	2/-	3/6	6/6	3/3	*Peptonic, gr. 3, Sugar-coated ...	4/6	8/6	15/6	12/6
*Bland's with Arsenic 1-100 & Strych. 1-100	2/6	4/6	7/9	5/-	Phenacetin, gr. 5 ...	2/-	3/3	5/6	3/-
*Bland's and Cascara ...	2/-	3/6	6/6	3/3	Phenacetin, Comp.; Phenacetin, gr. iv., Caffein Cit., gr. i., White or Pink	9/-	4/-	7/-	4/-
*CASCARA TABLETS, gr. 2, Pink or White, Sugar or Chocolate-coated ...	1 8	2/9	4/-	3/-	Potass. Bicarb., gr. 5 ...	1/6	2/3	3/6	1/3
Chemical Food (one teaspoon), Sugar- coated ...	3 3	5/3	10/-	6/-	Potass. Bromide, gr. 5 ...	2/3	3/9	6/6	3/-
Chlorate of Potash (40 in each bottle) ...	1/6	—	2/6	-9	*Quinine, gr. 2, Sugar-coated ...	3/-	5/-	7/6	6/-
Chlorate of Potash and Borax ...	1/6	—	2/6	-9	RHUBARB, gr. 3 (E.L.) ...	2/-	3/6	6/6	2/-
Chlorate of Potash, Borax, and Cocaine...	2 -	3/-	4/-	2/-	Rhubarb, 3; Soda, 2; and Ginger, 1	1/9	3/3	6/-	2/8
COLD AND INFLUENZA TABLETS (containing Quinine with LAXATIVES)	—	—	—	—	Saccharine, gr. ½ in 1-gr. tablet (100's)	4/-	—	—	per 1,000
(30 in box)	2/-	3/6	—	5/-	Saccharine, gr. ½ in 1-gr. tablet (200's)	7/6	—	—	or 17- per lb.
*DAMIANA COMP. Sugar-coated (Red)...	3/3	5/6	10/-	6/6	Soda Mint (30's) ...	1/6	—	3/-	-9
DOVER'S POWDER, gr. 5 ...	2/6	4/-	7/6	4/6	Sodi Bicarb., gr. 5 ...	1/3	—	3/-	-9
DYSPEPSIA TABLETS (CHLORODYNE CO.) ...	6/6	—	—	16/-	Sulphonal, gr. 5 ...	3/3	5/6	9/6	7/6
*ERGOTIN, gr. 3 ...	4/6	8/6	15/6	12/-	Sulphur Comp., Garrod ...	1/6	2/3	3/6	1/3
Guaiacol Carb., gr. 5 ...	3 -	5/-	9/-	6/6	Thioform ...	4/6	8/-	15/-	10/6
Headache Tablets ...	2 -	4/-	7/-	4/-	Urotropin ...	9/-	—	32/-	26/-
*Hypophosphite Syrup, 1 dr., Sugar-coated	3/3	5/6	10/6	7/-					

Chemist's Name and Address on Blue or White Label. 12 Varieties to choose from.

Those marked \* are sent sugar-coated.

ALL CARRIAGE PAID. APRIL PRICE LIST AND SAMPLES ON APPLICATION.



# ARTHUR H. COX & CO. LTD.

PILL AND TABLET MANUFACTURERS, BRIGHTON.

# EAU DE COLOGNE

Of the MOST ANCIENT DISTILLER,

**JOHANN MARIA FARINA, GEGENÜBER DEM JÜLICHES-PLATZ****ESTABLISHED A.D. 1709 at COLOGNE o/R.****Prize Medals :**

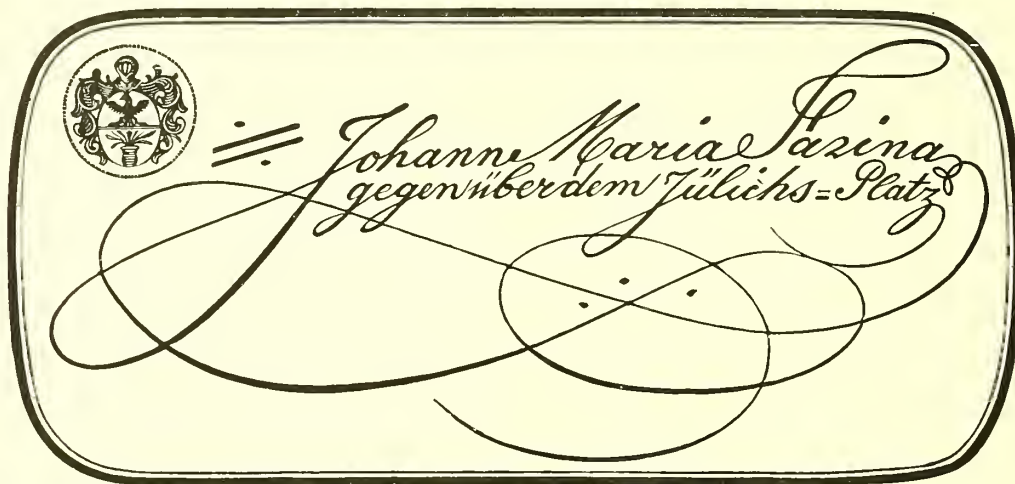
LONDON, 1851 and 1862;  
 OPORTO, 1865;  
 PARIS, 1855 and 1867;  
 VIENNA, 1873;  
 "GRAND PRIZE,"  
 PARIS EXHIBITION, 1900.



By Appointment,

By Appointment, Purveyor to  
 His Most Gracious Majesty Edward VII.,  
 King of Great Britain and Ireland,  
 Emperor of India; and  
 The late Queen Victoria; Their Majesties  
 William II., German Emperor and King of  
 Prussia; The Czar of Russia; Francis Joseph,  
 Emperor of Austria; Christian IX.,  
 late King of Denmark; Kings of Italy,  
 Belgium, Portugal, Saxony, Sweden, &c., &c.

The following is a facsimile of my Label; anyone selling or exposing for sale any imitation of the same will be proceeded against in the High Court.



I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

The superiority of my Eau de Cologne having been proved to the public by the above-mentioned highest distinctions, I have not taken part in any Exhibition since 1873 until the Paris Exhibition, 1900, where I have obtained the "Grand Prize," the highest award.

\* Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 10 per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some London House, or permission to draw on same at three months.

The goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland:

**Messrs. J. & R. McCracken, 10 Bush Lane, Cannon St., LONDON, E.C.***Showcards and other advertising matter will be supplied on application.*

The following are the sizes of my bottles:—

No. 00.	Small Green Flasks
" 0.	Small White Bottles
" 1.	Long Green Flasks
" 2.	Short White Bottles
" 3.	Double ditto
" 4.	Wickered Bottles (small)
" 5.	ditto (medium)
" 6.	ditto (large)

} as per figure plate	...	...	...	24 bottles
	...	...	...	24 "
	...	...	...	12 "
	...	...	...	12 "
	...	...	...	6 "
	...	...	...	8 "
	...	...	...	4 "
	...	...	...	2 "

to one dozen ... .. **13/6**  
 \* F.O.B. Continental Ports as above.

COLOGNE.

**JOHANN MARIA FARINA, OPPOSITE THE JÜLICHES PLACE.**



# Potter & Moore's

FRAGRANT

## Old English



# Mitcham Lavender Water

1/6 size	12/-	DOZ
2/6 "	20/-	"
3/9 "	30/-	"
6/6 "	48/-	"
12/6 "	84/-	"

DISTILLERY  
MITCHAM, SURREY.

De olde  
English  
Perfume

A.D.  
1749

Sole proprietors  
**W.J. BUSH & Co. Ltd.**  
Ash Grove, HACKNEY, N.E.



Telegrams: "ZIMMERMANN LONDON."

Telephones: AVENUE 2144; CENTRAL 3363.

# Samuel Francesco de Pasquale — and Fratelli —

have supplied the Leading Manufacturers with their

## **FINEST QUALITY ESSENCE OF LEMON**

**Not for 10 Years, but over EIGHTY Years**

to the fullest satisfaction of the buyers in the British Markets.

We guarantee the quality to be always **UNIFORM** and absolutely **GENUINE**, in accordance with the requirements of the British Pharmacopoeia, and also the U.S.A. Food and Drugs Act.

These **ESSENCES** are shipped direct from **MESSINA** in Sealed Coppers to all parts of the World, direct to buyers.

**BERGAMOT**, Finest Quality.  
**ORANGE**, Sweet and Bitter.

**PROMPT SHIPMENT GUARANTEED.**

*Samples and Special Quotations from the Sole Agents:—*

**A. & M. ZIMMERMANN,**

Sutherland House, 3 Lloyd's Avenue, LONDON.



# Purity!

Purity is our policy. It always has been and it always will be. For half a century and more we have been making the best Essential Oils that it is possible to make, and our products have received the highest commendation everywhere. You will not find in them any adulterant whatever. They will stand the tests of the B.P. 1898, or any test that you care to put them to. We are certain of this—that our Oils will give you absolute satisfaction, not once but every time.

## Specialities.

ALMOND OIL      CARDAMOM OIL  
CLOVE OIL      CORIANDER OIL  
ORRIS ROOT OIL  
LAVENDER & PEPPERMINT OILS  
SANDAL WOOD OIL  
&c., &c.

Wholesale and Export Trade only.

Distilleries:

LONG MELFORD, SUFFOLK



**STAFFORD ALLEN & SONS LTD**  
Cowper St London E.C



# THE . Lescol Perfumery Co.

Telegrams: "VANILLIN LONDON." **CAMBERWELL, LONDON.**

Telephone: 810 HOP.

## PERFUMES.

### Specialities:

— FÈDORA. NICOSIA. —  
ANVĀR-KĀMA HEATHER BLOOM.  
KARESME & ROYAL RED ROSE.



### Quadruple Varieties:

JOCKEY CLUB,  
LILY OF THE VALLEY,  
PARMA VIOLET

and all other popular Odours, in 3 qualities:  
Quadruple, Triple, and Extra Triple.



*All Prices, ranging from 1d. carded to  
highest-class Cut-glass Lines  
and Caskets.*

## TOILET PREPARATIONS.

ON THE P.A.T.A. LIST.

TOOTH  
PASTE



TOILET  
CREAM

LESCOL DAMASK CREAM.  
LESCOL TOILET SOAP.  
LESCOL SHAVING STICK.  
LESCOL SHAVING CREAM.

"THYMO-LESCOLINE" (the ideal Mouth Wash).

"DOUSALINE" (for the Complexion).

POMADE HONGROISE, &c.

*Unsurpassed for Price & Quality.*

# THE . London Essence Co.

Telegrams: "VANILLIN LONDON." **CAMBERWELL, LONDON.**

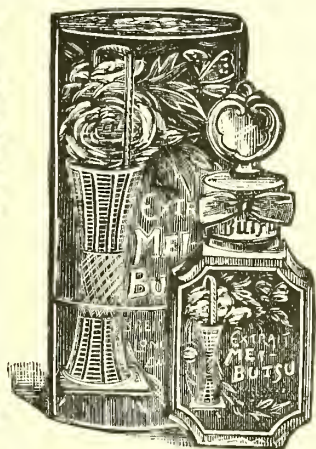
Telephone: 810 HOP.

## ESSENTIAL OILS.

EUCALYPTUS (Glob.), ANISEED OIL (China Star).  
PEPPERMINT, CLOVES, LEMON, SANDAL WOOD, &c., &c.

*All Oils guaranteed to pass B.P. requirements. Samples & Prices on application.*





No. 1663.



No. 1633.



No. 1348.



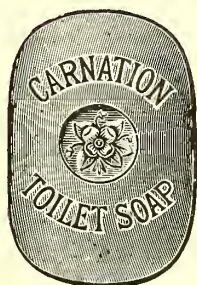
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No. 1624.

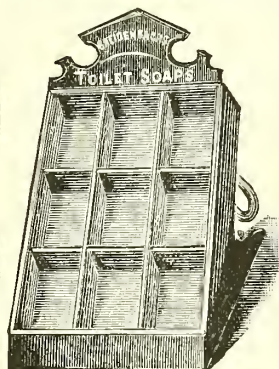
# BREIDENBACH & CO

**Offices & Showroom: 48 Greek St., Soho Square, W.**  
**Factory: Tower Works, Croydon.**



No. 1637.

The "Handy" Showstand is made of solid mahogany, well finished, and will be found very convenient for selling from, on the counter.



No. 1637.

It is supplied free of charge with opening orders for three gross of this series known as the "Regent" Brand.



No. 1637.

## LONDON, ENG.

**ESTABLISHED 1793.**



No. 14358.



No. 1630.



No. 1127.



No. 15368.



We are not only Headquarters for

**ARTIF. MUSK**

100 %

but also Makers of

**Magnolia,**

**Lyseol,**

**Muscarol**

and other  
high-class novelties  
for  
Perfumers, etc.

*Free Samples and Price-List are sent on application.*

**N. V. FABRIEK van CHEMISCHE PRODUCTEN**  
voorheen W. MALLMANN at ROERMOND (Holland)

Cable Address: MALLMANN.

ABC 4th, 5th edition, and Private Codes used.

**ARTIFICIAL & SYNTHETIC PERFUMES.**  
**COMPAGNIE MORANA**  
Joint Stock Company,  
114 SCHAFFHAUSERSTR., ZURICH, SWITZERLAND.

Specialities.

Rose, C. M.  
Jacinthine, C. M.  
Morana Fixateur  
Tilleul  
Carnation  
Raldéol  
Jasmin, C. M.  
Musc Liquide  
Musc Crystallisé  
Irisol

Novelties.

Radial  
Sweet Pea  
Cassis (Artificial)  
Capucine  
Violette Verdure

Soap Perfumes.

Special Samples on  
application.

Latest Novelties.

Jasminal  
Nerolate  
Cœur de Jeanne  
Suprême Parfum  
Idéalone  
Lily of the Valley  
Musc Ambrol Liquide  
Bouvardine  
Rose de Dijon  
Clematis

*Sole Agents and Consignees for the British Isles and Colonies:*

**O. MURRAY & Co., Ltd., 53 Gracechurch St., LONDON, E.C.**

PRICE LIST AND SAMPLES ON APPLICATION.



# COURVOISIER'S PROPRIETARIES.

**STERLING MERIT, backed by  
EFFICIENT ADVERTISING, resulting in  
READY and INCREASING SALES.**



## VIOTTO PERFUME,

13 6, 26 /-, 50 /-, 94 /-, 180 /- per dozen nett.  
1 5½, 2 9, 5 4, 10 3, 20 - per bottle retail.

## HAVANITA PERFUME,

16 /-, 30 /-, 54 /-, 102 /- per dozen nett.  
2 /-, 3 9, 6 9, 12 6 per bottle retail.

## VIOTTO SOAP,

21/- per dozen boxes nett.  
2 6 per box of 3 tablets retail.

## HAVANITA SOAP,

24 - per dozen boxes nett.  
2 9 per box of 3 tablets retail.



## VIOTTO FACE POWDER,

11/6 per dozen boxes nett.  
1/6 per box retail.

## MIMOSA (for the Hands),

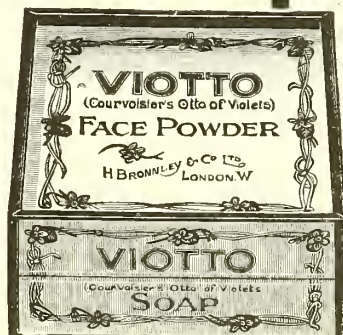
7/-, 14/-, 28/- per dozen nett.  
1/-, 2/-, 4/- per bottle retail.

## VIOTTO SACHET,

8/- per dozen nett. 1/- each  
retail.  
Contains Perfumed Felt.

## OTTO OF LILY OF THE VALLEY,

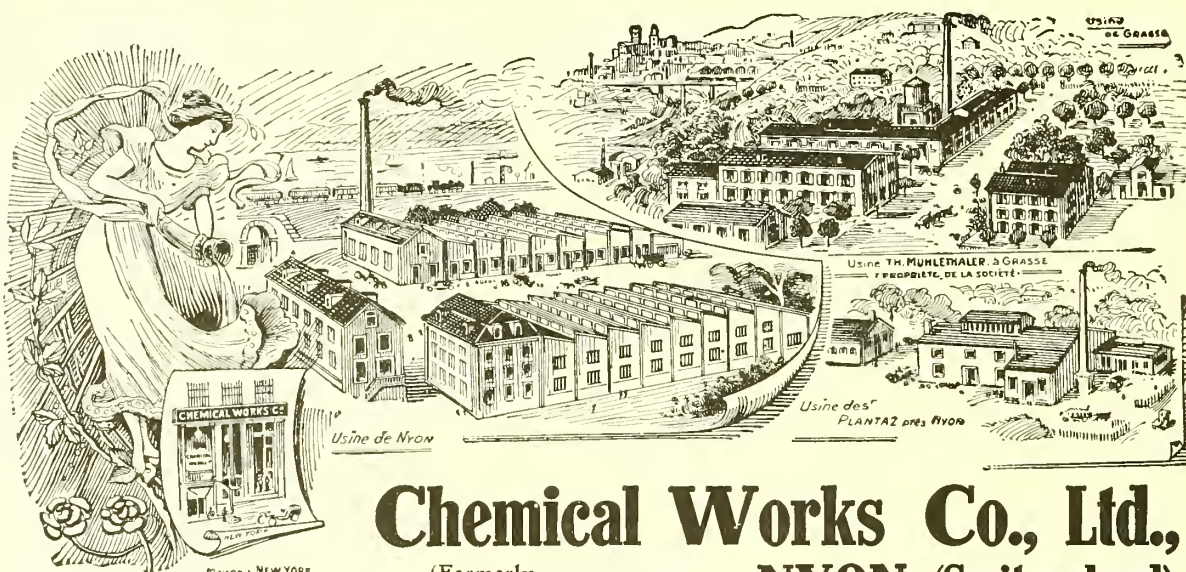
12/-, 23/-, 44 /-, 84/- per doz.  
nett.  
1/6, 2 9, 4 6, 8 6 per bottle  
retail.



**ALL ENTERED ON  
THE P.A.T.A.**

Of your Wholesaler, or direct from

**H. BRONNLEY & CO., LTD., ACTON VALE, LONDON, W.**



## Chemical Works Co., Ltd., (Formerly ———— TH. MÜHLETHALER) NYON (Switzerland)

: MANUFACTORY OF :

### Artificial Odoriferous Raw Materials

For Soap-makers, Perfumers, and Confectioners.

Sole Agents for  
GREAT BRITAIN

**R C TREATT & CO**

DUNSTER HOUSE,  
MINCING LANE,

**LONDON E C**

Telegrams : "TREATT LONDON."

Telephone : 1692 AVENUE.

TO WHOLESALE AND EXPORT TRADES.

## W. RANSOM & SON

(ESTABLISHED HALF A CENTURY).

### MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants.

### HITCHIN near LONDON.

#### SPECIALITIES :

SOLID & LIQUID EXTRACTS  
EXPRESSED JUICES  
ESSENTIAL OIL of LAVENDER  
ESSENTIAL OIL of PEPPERMINT

SCAMMONY RESIN  
JALAP RESIN  
ELATERIUM  
MERCURIAL PILL & OINTMENT

ALOIN | EUONYMIN  
LEPTANDRIN | IRIDIN  
DRIED MEDICINAL LEAVES  
ENGLISH DANDELION ROOT

Medicinal Tinctures and Spirits prepared with Pure Spirit supplied in Bond for Export.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Dried Herbs of superior Quality. Also Award at the Paris Exhibition, 1867.

## A. M. TODD CO., Ltd.

MAIN OFFICE

... ..

KALAMAZOO, MICH., U.S.A.

GROWERS, DISTILLERS, AND REFINERS OF

### CRYSTAL WHITE DOUBLE DISTILLED AND REFINED OIL PEPPERMINT.

This Oil is distilled from the choicest plants of True Peppermint, grown on our own farms, and is guaranteed to be the highest quality produced. We recommend its use to all manufacturers who desire to obtain the best possible results.

Packed in 10 lb. and 20 lb. Tins, and 1 lb.,  $\frac{1}{2}$  lb., and  $\frac{1}{4}$  lb. Bottles.

✉ CORRESPONDENCE SOLICITED ✉



**Shipkoff's Pure Otto of Rose**

The *test* of cheapness is *quality*—not *price*. Shipkoff's Rose is the cheapest, because it is the best Otto in the market. It is the *standard* brand—always pure and uniform, and *one* quality only.

Once tried, always used.

Highest awards: First Diploma & Medal of Absolute Purity, Chicago, 1893; Cross & Diploma of Honour, Antwerp, 1894; Gold Medal, Paris, 1900; 3 Grands Prix—St. Louis, 1904, Liege, 1905, Milan, 1906.

Shipkoff & Co., Kazanlik, Bulgaria.

London Depot: 9 Warwick Square, Newgate St., E.C.

**D. Pappazoglou,**

KEZANLIK, BULGARIA.

**FINEST GENUINE  
OTTO OF ROSE.**

I make a speciality of pure oil with lowest natural percentage of stearoptene.

Sole Agent: W. NAUMANN,  
[U.K. & Colonies]. 63 Bartholomew Close, London, E.C.

**No. 4  
EAU DE COLOGNE**

On the P.A.T.A.

Wholesale Agents—

FICKUS, COURTENAY & CO. St. Dunstan's Buildings, E.C.

**A. Boake, Roberts**

& Co., Limited,

STRATFORD,

LONDON

ENGLAND.

... FOR ...

**SOLUBLE ESSENCES,  
ESSENTIAL OILS,  
OIL LEMON.**

If you wish to make first-class

∴ Aerated Waters, use ∴

**BOAKE ROBERTS' ESSENCES.**

**Finest Soluble Essences:**

Lemon,

Orange,

Ginger,

Ginger Ale,

Stone Ginger Beer (*Cloudy*),

Clear Ginger Beer,

Kola Champagne,

Lime Juice and Soda,

Lemon Squash,

Raspberry,

Strawberry,

Pineapple,

Vanilla, &c., &c.

**GOLDEN CARAMEL, COLOURINGS, &c.  
and all sundries.**

**A. BOAKE, ROBERTS**

& CO., LIMITED.

**S.V.M.****RANDALL & SON,**  
Limited.

Manufacturing - - -

Pharmaceutical Chemists,

**SOUTHAMPTON**  
Best Quality Only.**Schmoller & Bompard,**  
Grasse, France.*Oil Almonds*  
*Oil Geranium*  
*Oil Lavender*  
*Oil Neroli*  
*Oil Patchouli**Oil Pennyroyal*  
*Oil Rosemary*  
*Oil Verbena*  
*Oil Vetivert*  
*etc., etc.**Concrete & Liquid Flower Oils*  
*Pure Virgin Olive Oil*  
*Pure Flower Pomades*  
*Extracts*  
*Floral Waters.*

SOLE AGENT FOR UNITED KINGDOM:

\* \* \* \*

**ALFRED PAUL WHITE, 5 Water Lane,**  
Ct. Tower Street, London, E.C.**ORRIS CONCRETE***In consequence of the increasing demand for our unrivalled quality we have been obliged to make arrangements to***DOUBLE OUR OUTPUT.****LAUTIER FILS****Factory at**  
**GRASSE**

ESTABLISHED 1795

**GRASSE**  
FRANCE**Factory at**  
**BEYROUTH**

ESTABLISHED 1905

For Stocks in London, Wholesale only: **W. NAUMANN, 63 Bartholomew Close, E.C.**



# OLONIQUES

"Olonique" is the registered title of a new and unique form of concrete essence, drawn solely and wholly direct from the flowers by a new process, whereby the true and natural bouquet of the plant is preserved in a highly concentrated form. They are made in both liquid and solid form at the following prices:—

	PER OUNCE BOTTLE.		PER OUNCE BOTTLE.
"OLONIQUE" WHITE ROSE ...	@ 10/-	"OLONIQUE" IDEAL ...	@ 11/5
" JOCKEY CLUB...	@ 10/-	" LILAS ...	@ 7/2
" TREFLE ...	@ 11/5	" PEAU D'ESPAGNE ...	@ 11/5
" CARNATION ...	@ 8/-	" ROSE ...	@ 17/7
" CHYPRE ...	@ 11/5	" SWEET PEA ...	@ 10/-
" NEW MOWN HAY ...	@ 7/2	" YLANG YLANG...	@ 11/5
" HELIOTROPE ...	@ 11/5	" CŒUR DE FANETTE ...	@ 11/5

ALL THAT IS NECESSARY to produce unrivalled handkerchief extracts is to dilute with S.V.R. according to price of extract required.

**ONE TRIAL WILL CONVINCE YOU OF THEIR EXCELLENCE.**

*I also solicit inquiries for*

Oil Geranium

„ Neroli Pet. Big.

„ Lavender

Oil Almonds

„ Thyme

„ Lemon, &c.

**SPECIAL.**

Choice Oil of Lavender Mont Blanc @ 8/3 per lb.

*Manufactured only by*

**CRESP-MARTINENQ, GRASSE, FRANCE.**

*All Indents will be promptly attended to by  
the Sole Agent for the United Kingdom:*

**C. SMITH,**

**83 QUEEN STREET, LONDON, E.C.**

ESTABLISHED 1820.

# Roure-Bertrand Fils

ROURE-BERTRAND FILS



GRASSE.

---

**DISTILLERS OF  
ESSENTIAL OILS.**

---

ROURE-BERTRAND FILS



FOUR DE MATRES PREMIES pour PARFUMERIE  
GRASSE (ALPES-MARITIMES)

MANUFACTURERS OF  
RAW MATERIALS FOR PERFUMERY AND SCENTED SOAPS  
AND HIGH-CLASS PERFUMERY EXTRACTS FROM FLOWERS.

**Essences solides, liquides and absolues . . .  
drawn directly from the flowers a speciality.**

HIGHEST AWARDS AT MOST EXHIBITIONS.

*Sole Agents for the United Kingdom:—*

**SPIES BROTHERS & CO., 102 Fenchurch Street, LONDON, E.C.**

*WHOLESALE HOUSES ONLY SUPPLIED.*

# "B.&K."

BRAND

# OTTO OF ROSE

GUARANTEED PURE. DISTILLED BY  
BONTCHEFF & KIDOFF OF KAZANLIK

SOLE AGENTS IN THE UNITED KINGDOM:

**Fredk. Boehm Ltd**

16 Jewry Street, London, E.C.

Wholesale Quantities only.

HALIFLOR

# ESSENCE OF VIOLET

1 PART OF ESSENCE TO 9 PARTS OF SPIRIT WILL PRODUCE A  
BEAUTIFUL NATURAL TRUE VIOLET PERFUME. SAMPLES AND  
PRICE FROM THE HALIFLOR CO., 9 Mincing Lane, and at Paris and Doberan.

# OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.  
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

**ALSO 3d. SAMPLE BOTTLES.**

Shippers and Wholesale Buyers supplied on the best terms by  
**THOMAS WEST, 1185 & 1187 Chester Road, MANCHESTER**  
Stretford.



# Antoine Chiris,

*Grasse, France.*

FACTORIES AT GRASSE & BOUFARIK (ALGERIA).  
ESTABLISHED 1768.

## Raw Materials for

Perfumers, Soap Makers, Manufacturing  
Chemists, Confectioners, &c.

**NATURAL PERFUMES, SOLID (Concrete) & LIQUID,  
POMADES & PERFUMED OILS,  
ESSENTIAL OILS, FLORAL WATERS,  
CONCENTRATED EXTRACTS.**

## DIRECT IMPORTATION

*of Finest Tonquin Mnsk, Civet, Ambergris, Vanilloes,  
also American Essential Oils (Peppermint, Wintergreen, &c.),  
through my branch house in New York.*

Sole Agent in the U.K. for the sale of Bergamot, Lemon, Sweet and Bitter  
Orange, Mandarine (Tangerine), Cedrat Oils, under the Trade Mark "Les  
Hespéridés" Reggio-di-Calabria.

**WE INVITE CORRESPONDENCE IN REFERENCE TO  
ABOVE MENTIONED GOODS. PROMPT ATTENTION  
GIVEN TO ALL ENQUIRIES.**

**43, 44, 45 Great Tower Street, London, E.C.**

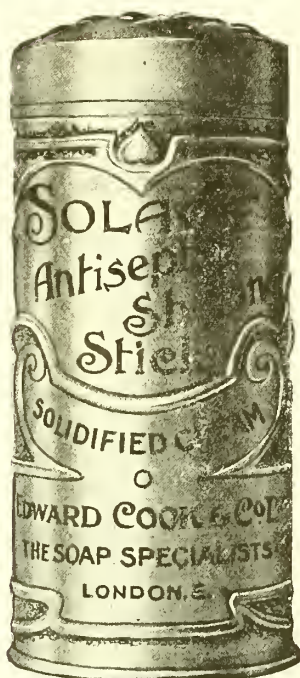
Telegrams "ANCHIRIS LONDON."

Tel. No. 1534 London Wall.

# ALL THE WORLD OVER

## MEN SHAVE;

*some shave in misery, some in comfort, and some in luxury.*



THE OUTER CASE.

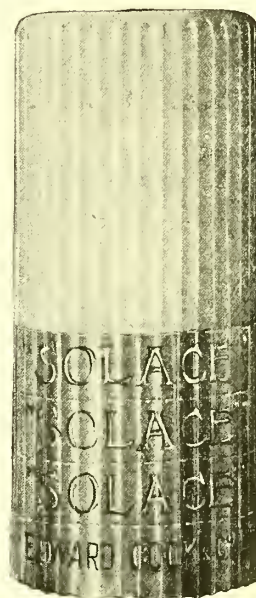
# "SOLACE"

**ANTISEPTIC  
SOLIDIFIED  
CREAM SHAVING STICK**

provides the most luxurious lather.

It gives just that flat silky lather which is always desired.

It is a luxury to shave with  
"SOLACE,"



THE STICK.

# AND IT PAYS YOU TO SELL IT.

*Price List and Sample on application.*

Sole Proprietors and Manufacturers of "Solace" (Regd.)—

**EDWARD COOK & CO., Ltd., The Soap Specialists, LONDON, E.**



# TRADE "VASELINE" MARK.

**"VASELINE" PURE.****PENNY TINS.**

8/- per Gross.

**TWOPENNY TINS.**

15/- per Gross.

No. 1 size in boxes of 1 gross	18/6 per gross.
" 1 " " 3 dozen	18/9 "
" 1 " " 1 "	18/9 "
" 2 " " 1 "	37/6 "
1-lb. tins, sealed	10/6 per doz.
5-lb. " "	30/- "
10-lb. " "	5/- per tin
25-lb. " "	11/8 "
50-lb. " "	21/6 "

**"WHITE VASELINE."****METAL CAP BOTTLES.**

Blue Seal, No. 1 size	3/9 per doz.
3-oz. size in cartons, boxes of 1/2 doz.	6 - "
6-oz. size in cartons, boxes of 1/2 doz.	10/6 "
1-lb. tins, sealed	20/- "
5-lb. " "	60/- "
10-lb. " "	9/3 per tin
25-lb. " "	22/- "
50-lb. " "	41/8 "

**RED OR "VETERINARY VASELINE."**

1/2-lb. tins, sealed	4/- per doz.
1-lb. " "	5/6 "
5-lb. " "	22/- "
10-lb. " "	3/6 per tin
25-lb. " "	7/6 "
50-lb. " "	13/4 "

Half-barrels, about 1 1/2 cwt.	28/- per cwt.
Barrels, about 3 cwt.	24/6 "

**"VETERINARY CARBOLATED VASELINE."**

1-lb. tins, 7/6 doz.

**"CARBOLATED VASELINE" BLUE SEAL.**

Screw Capped bottles ... 5/- per doz.

**"BLUE SEAL POMADE VASELINE."****SCREW CAPS.**

No. 1 size, in boxes of 1 gross	20/6
" 1 " " 3 dozen	21/-
" 2 " " 1 "	41/-

1d. tin.

Blue  
No. 1Seal.  
Size.**"PERFUMED WHITE VASELINE."**

New style Handsome Bottle, with glass stoppers.

Boxes of 1/2 doz.	12/6 per doz.
Metal cap, 3 oz. size, in card case	8/6 "

**"VASELINE HAIR TONIC."**

No. 1 size	9/- per doz.
" 2 " "	18 - "
" 3 " "	27/- "

**"PERFUMED VASELINE OIL."**

One size, in bottles (for the Hair), in boxes of 1 doz., 7/- per doz.

**"VASELINE COLD CREAM."**

Tubes, No. 1 size	3/10 per doz.
" 2 " "	7/6 "
No. 1 size, glass jars, in boxes of 1 doz.	3/7 "
No. 2 size, glass jars, in boxes of 1 doz.	5/6 "
No. 3 size, glass jars, in boxes of 1/2 doz.	9/- "
No. 4 size, nickel-plated boxes, in boxes of 1/2 doz.	19/- "
No. 5 size, glass jars	12/- "
" 6 " "	17/6 "

**"VASELINE CAMPHOR ICE."**

"Penny Size."—Fancy tin box, in boxes of 3 doz.	8/- per gross.
Fancy tin box, in boxes of 1 doz.	3/0 1/2 per doz.
Fancy tubes, in boxes of 1 doz.	3/0 1/2 "

**"VASELINE SOAPS."****UNSCENTED.**

3d. tablets, boxes of 1/2 doz. tablets,	27/- per gross tablets.
---	-------------------------

**PERFUMED.**

3d. tablets, boxes of 1/2 doz. tablets,	27/- per gross tablets.
---	-------------------------

**SUPERFINE.**

Delicately perfumed, box of 3 tablets,	5/- per doz. tablets.
--	-----------------------

**TAR.**

3d. tablets, box of 6 tablets	27/- per gross tablets.
-------------------------------	-------------------------

**"CAPSICUM-VASELINE."**

The Concentrated Extract of Capsicum absorbed by Vaseline from the Red Pepper or Capsicum Plant.

**A PERFECT SUBSTITUTE FOR MUSTARD & OTHER PLASTERS**

Instantly ready for use.

Will not Blister the Skin.

Collapsible Tubes, one size only, including Government Stamp, 9s. per doz.

The Word **"Vaseline"** is the Registered Trade Mark of the  
**CHESEBROUGH MANUFACTURING CO.**

(CONSOLIDATED), NEW YORK,

**42 HOLBORN VIADUCT, LONDON, E.C.**

Complete Price List sent on Application.

The number of dentifrices is myriad, their names are legion,

*But—*

in principle and in efficiency there is but one,

# CALOX

## THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

*Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, London, Eng.*

*Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX, acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

**McKESSON & ROBBINS, New York, U.S.A., Manufacturers.**

**BRITISH DEPOT—A. C. WOOTTON, 14 Trinity Sq., Tower Hill, London, E.C.**

## TRY IT IN YOUR BATH

BY APPOINTMENT



TO H.M. THE KING.

## SCRUBB'S AMMONIA

### MARVELLOUS PREPARATION

Refreshing as a Turkish Bath.

Splendid Cleansing Preparation for the Hair.

Allays the Irritation caused by Mosquito Bites.

Restores the Colour to Carpets.

Invaluable for Toilet Purposes.

Removes Stains and Grease Spots from Clothing.

Invigorating in Hot Climates.

Cleans Plate and Jewellery.

Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

### ENCOURAGE BRITISH INDUSTRIES.

**WOODS'**

## ARECA NUT TOOTH PASTE

(P.A.T.A.)

In Pots and Collapsible Tubes, 6d. and 1s. each.

SOLD BY ALL WHOLESALE HOUSES.

Special Terms for £5 from the Proprietors—

**W. WOODS & SON, Chemists, PLYMOUTH.**

Woods' Areca Nut Tooth Powder, containing all the properties of the Paste, in 6d. and 1s. Tins.

## TOILET PREPARATIONS

Placed on sale by

**JOHN STRANGE WINTER**

(Mrs. Arthur Stannard, the well-known novelist).

### FOR THE HAIR.

JOHN STRANGE WINTER'S HAIR FOOD Price 2/6.

KARWALAK 2/6. AMBERINE 3/6 and 8/-.

No. 1315 A clear, non-oily Stimulant. 3/6 and 8/- (4 times 3/6 size).

TEMPLE CREAM. For bare temples, moustaches, &c. 2/6 and 6/-.

### FOR THE SKIN.

LAKSHMI. A perfect Skin Lotion, 2/6 and 6/- (4 times 2/6 size).

LAKSHMI CREAM. 2/6. MANDARIN CREAM. 6d. (tubes) & 2/6.

CRÈME MARQUISE. 1/- (tubes) and 2/6 (pots). TOILET SALT. 1/6.

LAKSHMI SOAP. A High-class Toilet Soap. Three cakes in box, 1/6.

### FOR THE BLOOD.

MARQUISSETTES. Tablets to enrich the blood, 2/9 and 4/6.

Price List and full particulars from

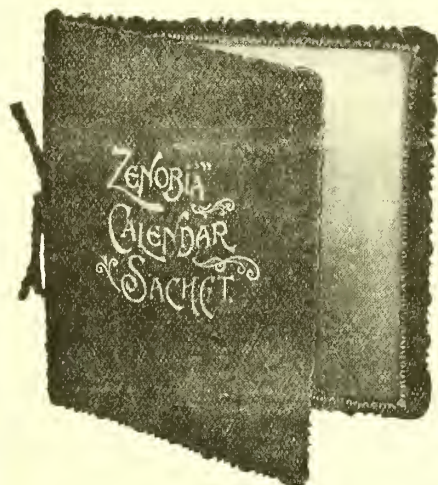
**"JOHN STRANGE WINTER,"**

**J. S. W. PREPARATIONS, LTD., 27 Clements Lane, E.C.**

Wholesale Agents: BURGOYNE, BURBIDGES & CO.



# An Attractive Novelty.



## THE ZENOBIA CALENDAR & GREETING SACHETS

IN MANY REGISTERED DESIGNS.

*Dainty Silk Sachets in all the celebrated Zenobia  
Flower Odours, in Scent-proof Cases.*

**SELLING IN THOUSANDS.**

These Sachets can be supplied in quantities with Customers' Names and Addresses printed upon them, and form a most attractive advertisement at Christmas. Orders should be placed early. Samples will be shown by my Representative, Mr. H. M. FIELDING, POST RESTANTE, BOMBAY, or will be sent by post on application to

**THE ZENOBIA LABORATORIES, LOUGHBOROUGH, ENG.**

## The 'VAMPIRE' and the 'FLYSAC.'

Send for samples. They carry our argument. Both annihilate flies, and both are hermetically sealed. With them there is no leakage, no risk, and no delay. The "VAMPIRE" sells on account of the novelty of its constructions, the "FLYSAC" on account of its economy in use.

**Prompt Deliveries. Big Profits. Quick Returns.**

SOLE MAKERS:

**KAY BROS. Ltd., STOCKPORT.**

*30 years' experience in the manufacture of Bird-limes and Flygums.*



**THE FINEST INVENTION OF THE AGE.**

Recommended by Dental Authorities.



The "MYSANTAL" Toothbrushes beat all other makes, customers are delighted with them. Each Brush put up in antiseptic tube, an extra cleaning brush being supplied.

Write for particulars to:-

**THE MEYER-SANDER DENTAL SUPPLY CO. 55 Berners Street, LONDON, W.**

**TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.  
FOR QUOTATIONS apply to-**

**PRESTON'S LIVERPOOL DISTILLERY CO., LD.**

The Largest Makers in the Kingdom.

**BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.**

FOR CHEMISTS ONLY.

- THE -

# ERASMIC

## WINDOW DISPLAY COMPETITION.

*Cash Prizes - £250.*

For Special Terms for Display Orders,

Apply **THE ERASMIC CO., LIMITED, WARRINGTON.**

## In ordering Fancy Sprays

for the coming season, DO NOT FORGET US. We can show you the finest selection ever offered. We have always made FANCY SPRAYS a special study and feature in our business. Write for our Special Spray Catalogue (44 pages) of original and exclusive patterns.

From 9/6 to 120/- per dozen.

*We will send 1 dozen assorted, carriage paid and free box, to any part of the United Kingdom as a sample.*

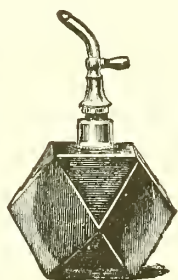


Fig. 12219.  
34/-  
3 colours.



Fig. 39218.  
32/6  
4 colours. English Glass.



Fig. 29661.  
28/6  
4 colours. English Glass.



Fig. 9301.  
26/-

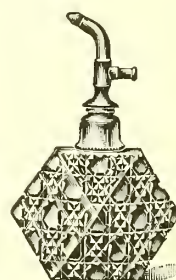


Fig. 12538.  
58/-, 82/-, & 108/-  
3 sizes.

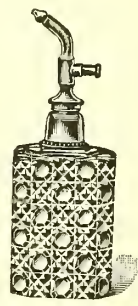


Fig. 7781.  
42/-, 47/-, 56/-, 68/-  
4 sizes.

**HENRY C. QUELCH & CO., 4 Ludgate Square, LONDON, E.C.**



# METHYLATED SPIRIT

WHITE IN COLOUR AND EXCEPTIONALLY FREE FROM UNPLEASANTNESS.

## SPIRITS OF WINE

ALL STRENGTHS TO ABSOLUTE ALCOHOL.

DUTY PAID. DUTY FREE FOR EXPORT AND SCIENTIFIC PURPOSES.

TRY THE "EXTRA RECTIFIED" FOR YOUR PERFUMERY.

## CHEMISTS' WINES

SHERRY. PORT. MEAT AND MALT. COCA. ORANGE. ORANGE AND QUININE

RED CROSS SCOTCH WHISKY.

RED CROSS IRISH WHISKY.

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*Write for Samples and Quotations.*

### JAS. BURROUGH LTD.

Cale Distillery,  
LAMBETH, S.E.

Telegrams: "BURROCALE LONDON." Established at Chelsea 1820.

Telephone: HOP 3436.

# "HARLENE HAIR DRILL."



## REASON and RESULTS.

If an article of toilet becomes in great demand, there must be a reason for it. It is either the sterling properties of the article in question, conscientious recommendation, or else it is caused by extensive advertising. "Harlene," for "Hair Drill," is in that pleasing position, owing to its popular and scientific method, its sterling properties, and successful and convincing publicity.

## A GENEROUS OFFER.

*To create trade and draw customers we will send to any Chemist purchasing a £2 parcel one gross of FREE SAMPLE BOTTLES for distribution, with dummies, showcards, &c., for display.*

<b>"HARLENE"</b>			<b>"UZON"</b>			<b>"CREMEX"</b>		
For the Hair.			Brilliantine.			Shampoo Powders.		
	Retail.	Wholesale.				Retail.	Wholesale.	
No. 1 size...	1/-	11/- per doz.	Retail.	Wholesale.		Retail.	Wholesale.	
" 2 "...	2 6	27 3 "	1/-	11/- doz.		1/-	11/- per doz.	
" 3 "...	4 6	47/- "	2 6	27 3 "			per box of 8 powders.	

**SPECIAL.**— Full discount of 20 per cent. off trade prices to all buyers of £2 (net) cash with order. The £2 parcel may be assorted according to customers' wishes.  
CARRIAGE PAID.

Fully Illustrated Price List, quoting all productions, sent post free on application.

**EDWARDS' "HARLENE" CO., 95 & 96 HIGH HOLBORN, LONDON, W.C.**



# PAPIER POUDRÉ

*Scented or Unscented, in three tints,*

## WHITE, ROSE OR RACHEL.

POWDER (IN BOOK FORM) WITHOUT A PUFF.

BOOKS, 4½d., 6d. and 1s. each; 2s. 6d., 3s. 9d., and 7s. 6d. per doz

1/- MIRROR CASES WITH PAD PAPIER POUDRÉ, 7s. 6d. doz.

6d. SHAVING PADS OF PAPIER POUDRÉ ... 3s. 9d. doz.

**YOU  
MUST  
STOCK  
THE  
PAPIER  
POUDRÉ**

Absolutely  
Unique  
Value.



**OUR  
LATEST  
BOOK**

**4 1d.  
2**

P.A.T.A.  
2 6 doz.

**WRITE  
FOR  
SAMPLE**

**NOTHING TO EQUAL IT.**

### CAUTION.

An order has been entered by the Supreme Court of the State of New York against the Payne Manufacturing Co., prohibiting the manufacture of imitations of Papier Poudre.

NONE GENUINE WITHOUT OUR TRADE MARK.

*Papier Poudre, Limited,*

23 Somerset Street, London, W.

The BEST and  
CHEAPEST CAPPING  
... is ...

## VISCOSE BOTTLE CAPS.

SUITABLE FOR CAPPING  
EVERYTHING.

THIS IS  
ALL YOU  
DO ...

Put the Cap  
loosely over the  
neck of the  
bottle.



THE CAP  
DOES THE  
REST ...

As it shrinks  
it grips.

WE ARE  
EXHIBITING  
at the  
CHEMISTS'  
EXHIBITION

Stand No. 81.

See the  
New Coloured Opaque.

VISCOSE DEVELOPMENT COMPANY, LTD., 3 New Court, Carey Street, LONDON, W.C.

# PRIVATE

Brand Makers  
of Toilet and  
Medicinal Soaps

*Manufactured by us so that they reflect credit upon you and your goods.*

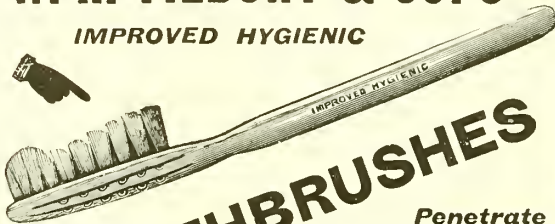
TOILET SPECIALITIES FOR THE TRADE.

**H. BRONNLEY & CO., Ltd.,** Warple Way,  
ACTON, LONDON, W.

Our Factory is within five minutes' ride of Shepherds Bush and Hammersmith Tube and Railway Stations.  
Acton Trams and Buses pass the door.

**W. R. TILBURY & CO.'S**

IMPROVED HYGIENIC



**TOOTHBRUSHES**  
Penetrate  
Everywhere.  
IN THREE SIZES.  
**HACKNEY, LONDON**

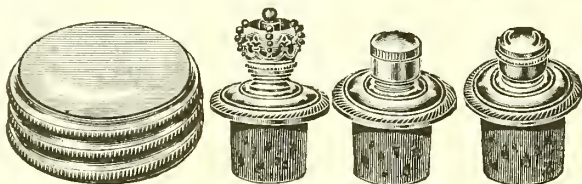


**BIDWELLS'**  
GOLD MEDAL  
**TOOTH BRUSHES.**

ILLUSTRATED CATALOGUE FREE ON APPLICATION.

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**AXMINSTER, DEVON.**

**SUPPORT HOME INDUSTRIES.**



**BROOKS, PEEL & CO.,**

Makers of Collapsible Tubes and Filling Machines for same. Patentees of  
Sprinkler and other Stoppers for Perfumes, Washes, &c. Screw Caps.  
**109 BARTHOLOMEW ROAD, LONDON, N.W.**



Estd. 1777.



Incd. 1900.

**BUY**  
**KENT'S**  
**BRUSHES.**

Winter Issue, 1909, pp. 86, 87.  
Diary, 1909, pp. 46, 47.



## A PAGE OF SPECIAL SHAVING BRUSHES



→  
FINEST BADGER HAIR.

20/- 26/- 32/- 40/- 48/- 58/- doz.



FINE BADGER HAIR.

17/6 21/- 25/- 30/- 35/- doz.



→  
MIXED BADGER HAIR.

13/- 14/- 16/- 18/- 21/- doz.



IMITATION BADGER HAIR.

7/6 & 12/- doz.



→  
METAL AND BOXWOOD HANDLE.

4/- & 7/- doz.



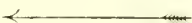
PURE BRISTLE, BONE HANDLE.

3/- 7/- 9/6 doz.



→  
BRISTLE, METAL HANDLE.

3/6 6/- 8/6 doz.



BADGER HAIR, REVERSIBLE.

28/- & 34/- doz.



TELEGRAMS:  
"ELEVEN LONDON."

MAW, LONDON.

TELEPHONE:  
LONDON WALL 3230  
(4 LINES)

# F. SCHUTZE & Co.

BLACK BULL WORKS, CALEDONIAN MARKET, LONDON, N.

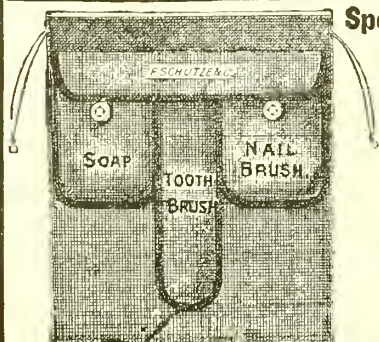
*Druggists' Sundriesmen. Manufacturers of all kinds of Small  
Waterproof Ware, Bandages, Trusses, Suspensories, &c., &c.*

## PATENT EVERSAFE SOOTHERS.

*SOLID, ELASTIC, TRANSPARENT TEATS.*

Shape always retained. Security assured. Prices protected.  
Profit good. Exceptional interest and merit.

*Samples on Application.*



### Sponge Bags. Father Neptune's Floats

A splendid  
assortment.

All styles.

All sizes.

All qualities.

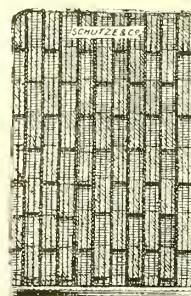
Numerous  
Novelties.



Free from Rubber. Non-perishable.

The only ones provided  
with a **Safety Band** against  
accidental loss. Best English  
workmanship. Buoyancy un-  
equalled. The finest, cheapest  
and most popular and profit-  
able line on the market.

### Washing Cloves.



In many  
designs and  
materials.

Well made  
and finished.

Quality and  
workman-  
ship  
guaranteed.

Stock the articles which  
your customers require  
—and will ask for again.  
Among these

## CALVERT'S Carbolic Tooth Powder

occupies, of course, a prominent  
position all over the world.

And there is a good demand  
too for the other specialities,  
Carbolic Soaps, Ointment, Dis-  
infectants, &c., made by F. C.  
Calvert & Co., Manchester,  
England.

Illustrated Price List post free  
on request.

April—**BONUS MONTH**—is here.

**FREE! FREE! FREE!!!**



During this month  
we present **FREE** two  
Cloth Balls with all  
orders for one dozen  
(larger quantities in  
proportion). This offer  
is only made to induce  
our customers to place  
their orders early to  
lighten the heavy  
pressure in our busy  
season and will not  
under any circum-  
stances

**BE EXTENDED OR  
REPEATED THIS YEAR**

**OUR TERMS ARE WELL KNOWN. 100% PROFIT.**

And if you are dissatisfied with Sales we **WILL BUY BACK  
AT FULL TRADE PRICE** all our Cloth Balls you have on  
hand December 1, 1909.

Are you reaping the benefit of this exceptionally good  
paying line? ? ?

**Remember, N. dead Stock. Sells at Sight.**

If you prefer a "feeler" we will forward 14 6d. size and  
14 1/- size, together with show dummies and show cards for  
5/3 (five shillings and three pence), carriage forward.

SOLE MANUFACTURERS AND PROPRIETORS—

**O'NEIL, ZETTS & CO.**

182 STROUD GREEN ROAD, N.



## An Attractive Window READ pays. READ

what "THE CHEMIST & DRUGGIST" says:

**LAIT LAROLA.** — "This little engraving represents one of the smartest arrangements for window-display that we have seen for some time. It is collapsible, measures 20 in. high by 11 in. wide, and although made of cardboard, at a distance of 3 or 4 yards it is so substantial looking as to convey the idea of the original cartons of "Lait Larola." It is just the thing to make an attractive corner in the window, on a shelf, or, indeed, in any part of the pharmacy. Any C. & D. subscribers who would like one should write to Messrs. Beetham & Son, Cheltenham, the proprietors of "Lait Larola."

Also Show Cards and Coloured Pictorial Postcards for distribution if desired. All the "Larola" preparations are protected at **FULL FACE VALUE**, and the goods bear a good profit.

Price List with terms sent on application to—

**M. BEETHAM & SON, Cheltenham.**



## Dr. Dralle's Birch Water

Celebrated Lotion for the Hair.

The prices are fixed for

No. 103 price	20/- doz.	Retail ...	2/6
No. 104 ..	40/- ..	..	5/-
1 Litre Bottle	9/-	..	14/6

Grand Prix St. Louis, 1904.

" " Milan, 1906.

Wholesale:—

**OSBORNE, GARRETT & CO., LONDON.**

*Charming  
Novelty!*

## DRALLE'S Lily of the Valley-Illusion. IN LIGHTHOUSE.

It is an ethereal essence without alcohol, so highly concentrated that the smallest drop will produce the sweet scent of the Lily of the Valley true to nature and never previously produced. Beats all previous records in perfumery.

Price 27/- doz. Retail 3/6

" 78/- " " 10/-

Ask for Free Sample.

Sole Agents for the United Kingdom & British Colonies:

**RAAB & SONS, 25 Mil'on Street, London.**



# ROBARE'S AUREOLINE Or GOLDEN HAIR WASH.

4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from **R. HOVENDEN & SONS, LTD.**, and from all the principal Patent Medicine Warehouses in London.

# LAVONA DE COMPOSÉE AND FLOWERS OF OXZOIN

ARE REDUCED IN PRICE

**TO-KALON PERFUME (French Fon Fleur)**

is now put up in 2 dram as well as 1 oz. bottles.

Obtainable from all the Leading Wholesale Houses.

**ALL OUR GOODS ARE ON THE P.A.T.A. LIST.**

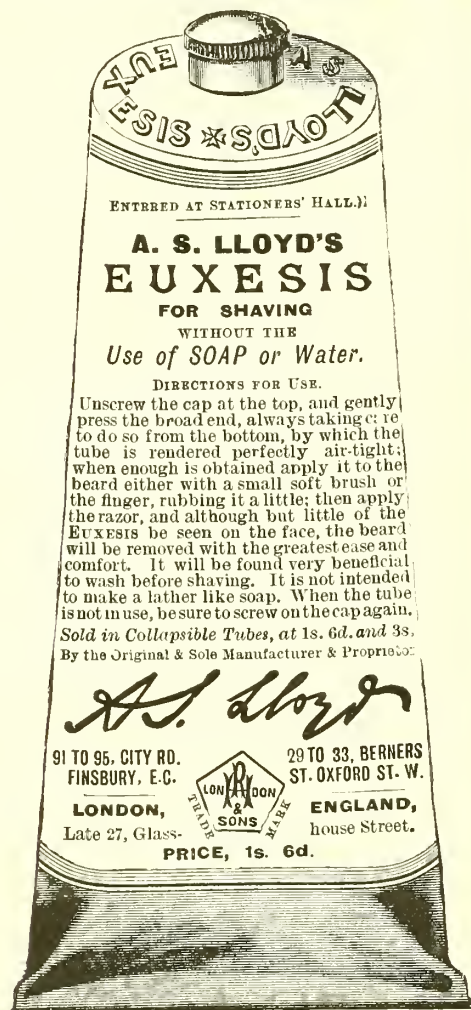
**TO-KALON MANUFACTURING CO.**

Albion House, 61 New Oxford Street, London, W.C.

# A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water, or Brush.



ENTERED AT STATIONERS' HALL

**A. S. LLOYD'S  
EUXESIS**

FOR SHAVING

WITHOUT THE

Use of SOAP or Water.

DIRECTIONS FOR USE.

Unscrew the cap at the top, and gently press the broad end, always taking care to do so from the bottom, by which the tube is rendered perfectly air-tight; when enough is obtained apply it to the beard either with a small soft brush or the finger, rubbing it a little; then apply the razor, and although but little of the Euxesis be seen on the face, the beard will be removed with the greatest ease and comfort. It will be found very beneficial to wash before shaving. It is not intended to make a lather like soap. When the tube is not in use, be sure to screw on the cap again.

Sold in Collapsible Tubes, at 1s. 6d. and 3s.

By the Original & Sole Manufacturer & Proprietor

*A. S. Lloyd*

91 TO 95, CITY RD.  
FINSBURY, E.C.

LONDON,  
Late 27, Glass-



29 TO 33, BERNERS  
ST. OXFORD ST. W.

ENGLAND,  
house Street.

PRICE, 1s. 6d.

Sold by all Perfumers and Chemists  
throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- per dozen, 9/6 by the 3 dozen, 9/- by the 6 dozen.  
Retail at 1/6 the Tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS,**  
LIMITED,  
29-33 Berners Street, W.  
and 89-95 City Road, E.C., LONDON.

## DAGGETT & RAMSDELL'S PERFECT COLD CREAM.

"The kind that keeps."



The most delightful of all toilet accessories. Known and renowned in every country where daintiness of the toilet is recognised as a mark of refinement. Its popularity is due to its unvarying quality, its absolute purity and the fact that it

**NEVER BECOMES RANCID.**

Different from and superior to all other cold creams. Not affected by heat, cold or climatic changes. Retains to the last its snowy whiteness, delicate perfume and wonderful properties which have given it international fame.

OBTAINABLE FROM ALL WHOLESALE HOUSES.

Made only by  
**DAGGETT & RAMSDELL,**  
Manufacturing Chemists,  
17 Charterhouse Buildings, Goswell Rd.  
LONDON, E.C.

Add a new source of income  
to your business by taking up

## Laurence's

ONE-SOLUTION

## Hair Dye

In nine shades — Raven Black, Black, Dark Brown, Brown, Medium Brown, Light Brown, Golden Brown, Auburn and Chestnut.

**THE BEST ON THE MARKET.**  
**ABSOLUTELY RELIABLE.**

Shows over 100 per cent. profit.

Can be supplied under Chemist's own title if preferred, and exclusive design of carton and label reserved in any one town.

Write at once for particulars to—

**C. R. HARKER, STAGG & MORGAN**  
Devon Wharf, Emmott Street, LTD.  
MILE END, LONDON. E.



# A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

## CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

Sole Manufacturers and  
Proprietors :

**AIMÉE LLOYD & CO.**

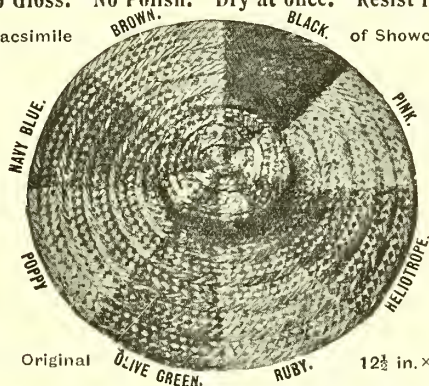
3 SPUR STREET, Leicester Square, LONDON, W.C.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

A new Invention of Great Utility.

## "LUTON" HAT DYES

No Gloss. No Polish. Dry at once. Resist rain.  
Facsimile of Showcard.



In bottles, 6d. each, in separate neat cartons, with suitable brush

These Dyes are a distinct invention, dying the straw without an objectionable varnished appearance, and producing the effect of new goods.

Write for terms and patterns:

## WHITAKER & CO.

Colour Works, KENDAL, ENG.

SPECIALISTS IN VARNISHES, STAINS, DYES, &c. ESTD. 1878.

Colonial Testimonial—"Your 'Lutons' have really come up to the mark."—Geo. H. Langton, Port of Spain, Trinidad.

## Your Rent FREE!!!

Practical Chemists have proved it!!



P.A.T.A.

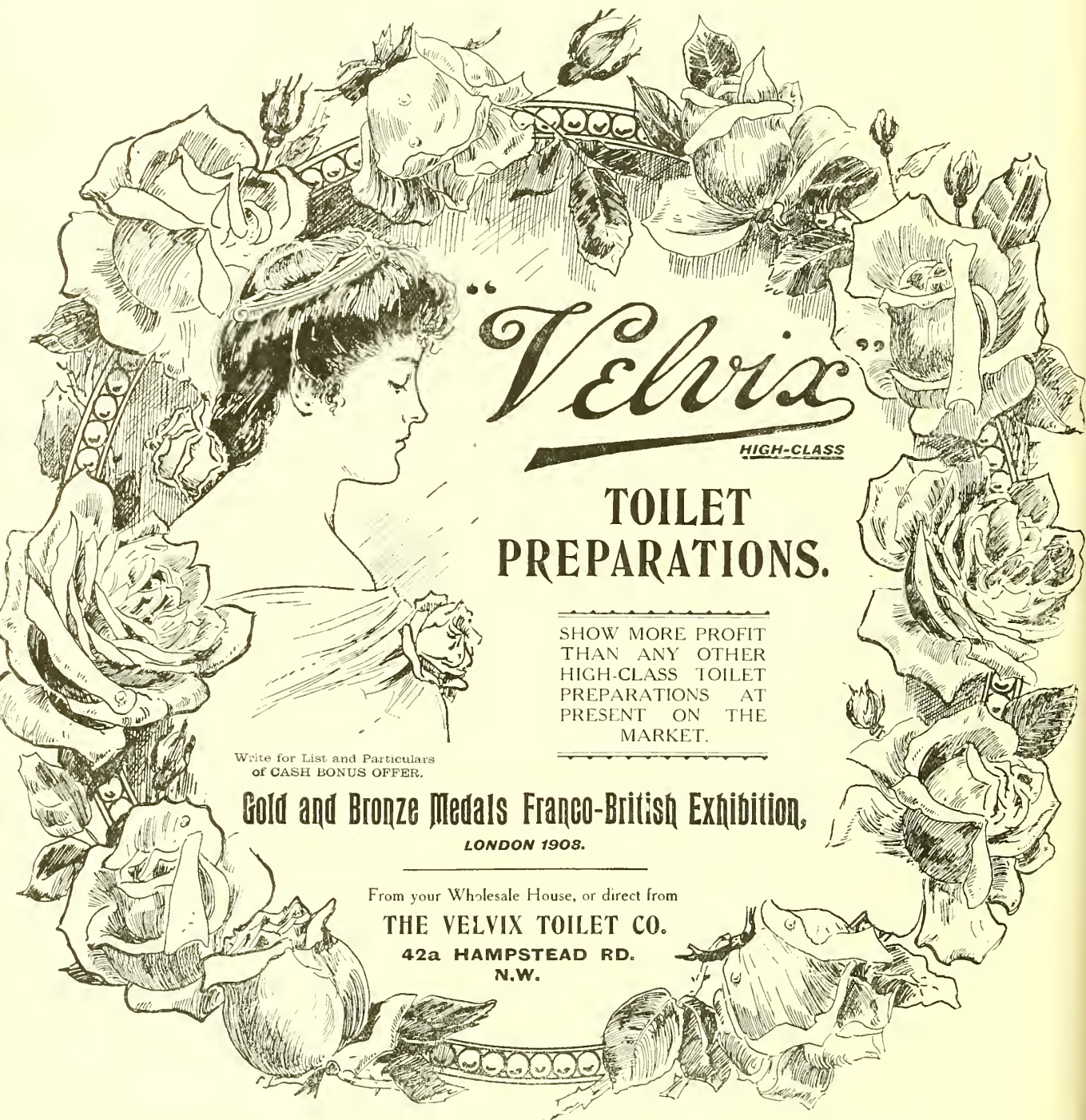
**PROFIT 66 %**

**SELLS LIKE  
WILDFIRE.**

Beware of Unprofitable Imitations.

N.B.—Special Terms for "DISPLAYS."

Send P.C. to 195 SEVEN SISTERS ROAD,  
LONDON, N., for particulars.



*“Velvix”*  
**HIGH-CLASS**

**TOILET  
PREPARATIONS.**

SHOW MORE PROFIT  
THAN ANY OTHER  
HIGH-CLASS TOILET  
PREPARATIONS AT  
PRESENT ON THE  
MARKET.

Write for List and Particulars  
of CASH BONUS OFFER.

**Gold and Bronze Medals Franco-British Exhibition,  
LONDON 1908.**

From your Wholesale House, or direct from  
**THE VELVIX TOILET CO.**  
42a HAMPSTEAD RD.  
N.W.



# IMPORTANT NOTICE

TO

## CHEMISTS AND DRUGGISTS.



Messrs. A. ROWLAND & SONS, proprietors of Rowland's Macassar Oil, for strengthening the growth of the Hair; Kalydor, for beautifying the Complexion; and Odonto, for whitening the teeth and preventing their decay, have just had designed for them a new and beautifully coloured

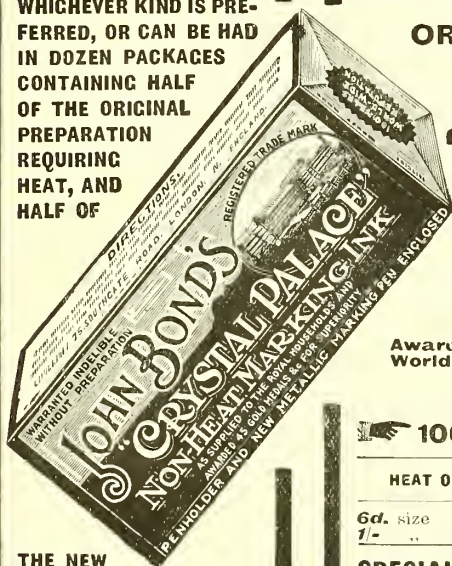
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and will be glad to send one free of cost to any Chemist or Druggist who will send his name and address; also counter bills with name and address.

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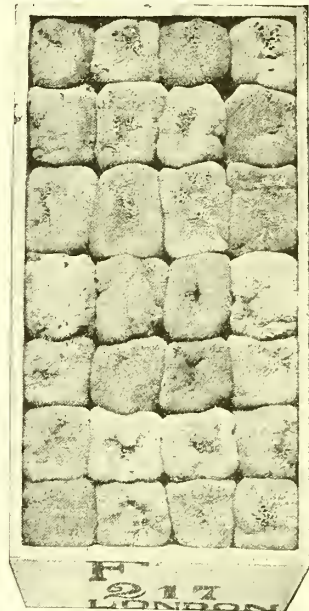
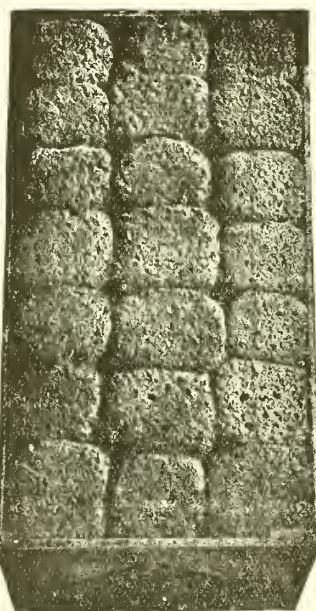


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Toilet & Bath. 1st and 2nd Qualities.		3rd Shape. Toilet & Bath. Largest Sponges obtainable at the prices.		1st Quality.  PICKED SHAPES.		2nd Quality.  LARGE FOR MONEY.		SELECTED SHAPES.  1st Quality.		2nd Quality, large.  LARGE FOR MONEY	
Pieces in Case.	Average Price per Piece.	Pieces in Case.	Average Price per Piece.	Pieces in Case.	Average Price per Piece.	Pieces in Case.	Average Price per Piece.	Pieces in Case.	Average Price per Piece.	Pieces in Case.	Average Price per Piece.
300 at	4d.	330 at	2d.	300 at	1/-	300 at	9d.	400 at	3d.	300 at	3d.
270 "	6d.	280 "	3d.	250 "	1 1/3	250 "	1/-	300 "	4d.	250 "	4d.
200 "	8d.	250 "	4d.	200 "	1 1/6	200 "	1 1/3	200 "	6d.	200 "	6d.
180 "	9d.	200 "	8d.	175 "	1 1/9	180 "	1 1/6	200 "	8d.	180 "	9d.
170 "	1/-	180 "	9d.	150 "	2/-	150 "	2/-	150 "	1/-	150 "	1/-
160 "	1 1/2	160 "	1/-	140 "	2 1/6	120 "	2 1/6	100 "	1 1/9	100 "	1 1/9
160 "	1 1/6	140 "	1 1/3	100 "	3/-	90 "	3/-	80 "	2/-	80 "	2/-
150 "	1 1/9	120 "	1 1/6	90 "	3 1/6	80 "	4/-	70 "	3 1/6	70 "	3 1/6
140 "	2/-	100 "	1 1/9	70 "	4 1/6	60 "	5/-	60 "	4/-	60 "	4/-
140 "	2 1/6	90 "	2/-	60 "	5 1/6	50 "	6/-	50 "	5/-	50 "	5/-
125 "	3/-	80 "	2 1/6	50 "	6 1/6	40 "	7 1/6	40 "	7 1/6	40 "	7 1/6
110 "	3 1/6	60 "	3/-	40 "	7 1/6						
95 "	4/-	45 "	4 1/6								
90 "	4 1/6	30 "	5/-								
80 "	5/-										
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SCHOOL, 3d., 2 doz. on Card	3 1/6	TOILET, 1/6, 1 doz. on Card	120/-
1d., 1 "	7/-	" 2/-, 1 "	168 -
TOILET, 2d., 1 "	14/-	" 2 1/6, 1 "	208/-
3d., 1 "	20/-	" 3/-, 1 "	21 1/2 doz.
4d., 1 "	27/-	BATH, 3/6, 1 "	24 1/2 doz.
6d., 1 "	40/-	" 4/-, 1 "	28 1/2 doz.
1/-, 1 "	84/-		

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Larger than Turkey. Soft in Use.

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4d., 1 "	24/-	" 1 1/6, 1 "	108/-
6d., 1 "	36/-	" 2/-, 1 "	144/-
9d., 1 "	54/-	" 2 1/6, 1 "	180/-

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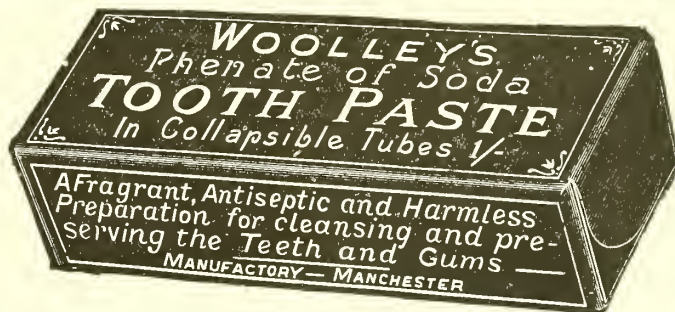
In Stoppered Amber Glass Bottles.  $\frac{1}{4}$ -Pint,  $\frac{1}{2}$ -Pint, Pint, Quart, &  $\frac{1}{2}$ -Gallon.  
 Retail, 1s., 1s. 9d., 3s., 5s. 6d., and 10s. 6d. each.

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"An excellent Tooth Paste, cleansing and very agreeable to use."

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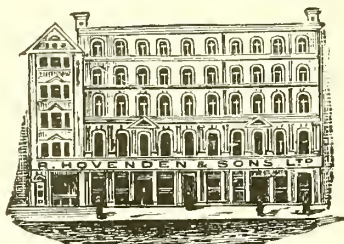
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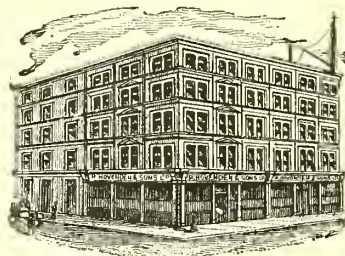
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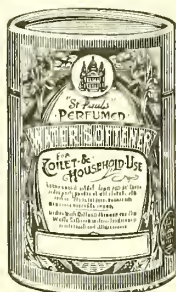
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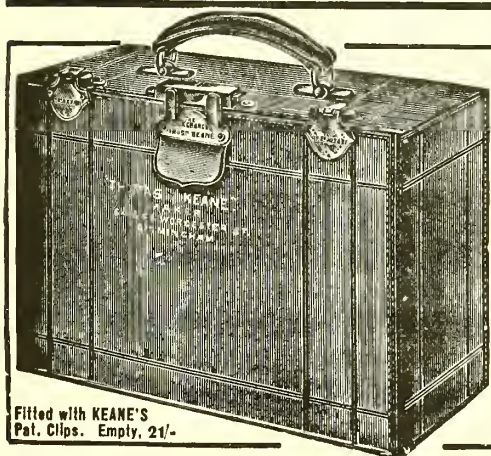
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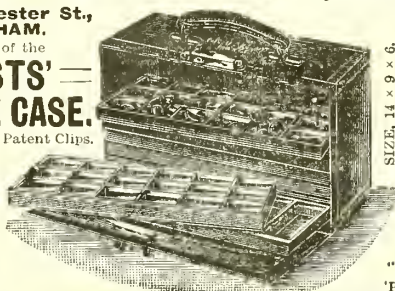
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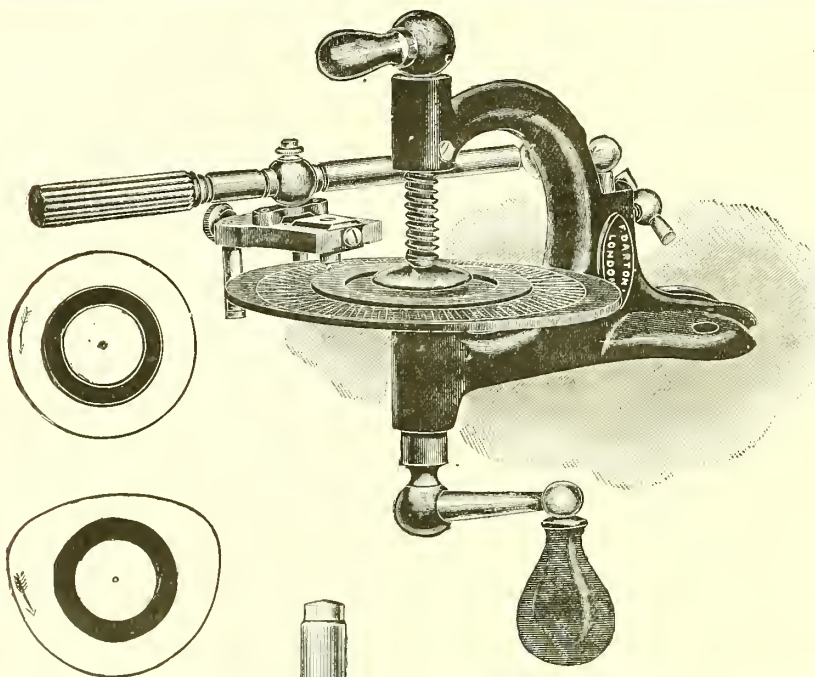


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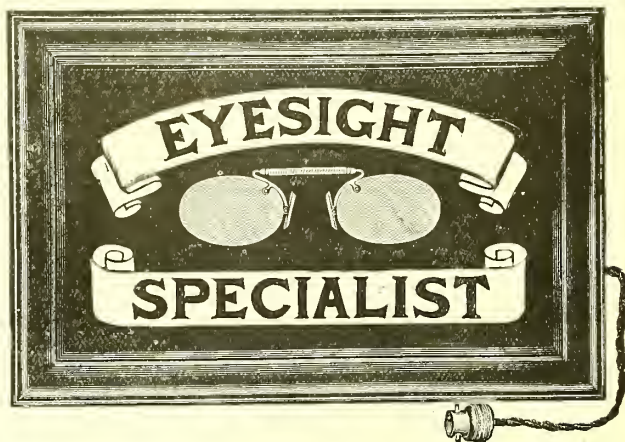
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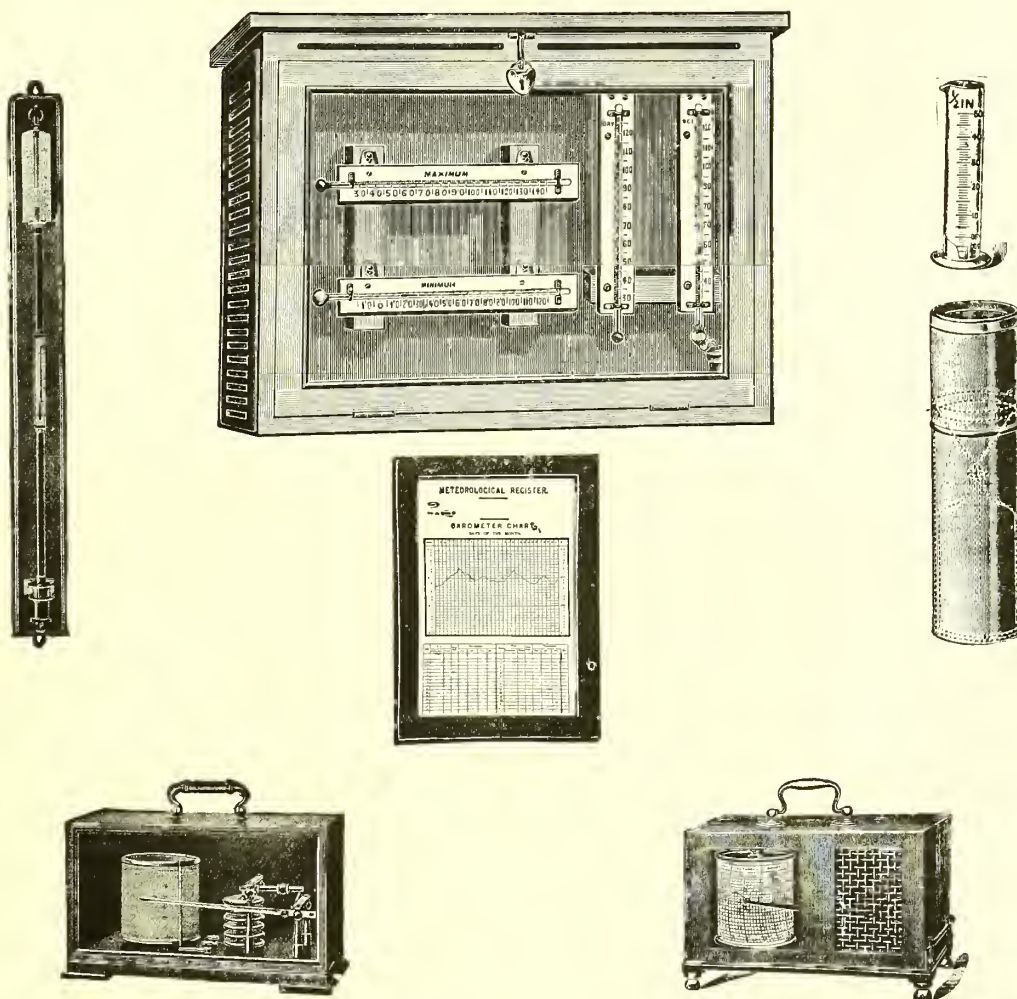
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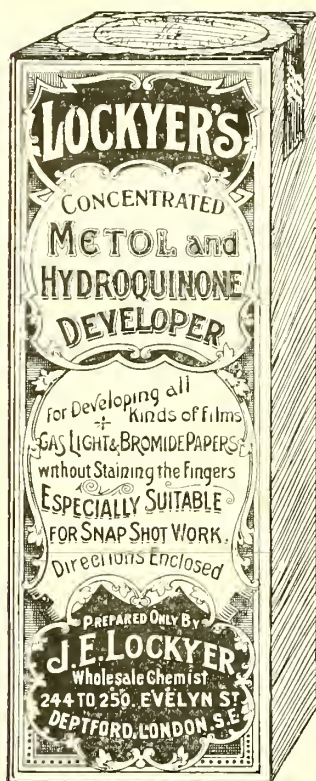
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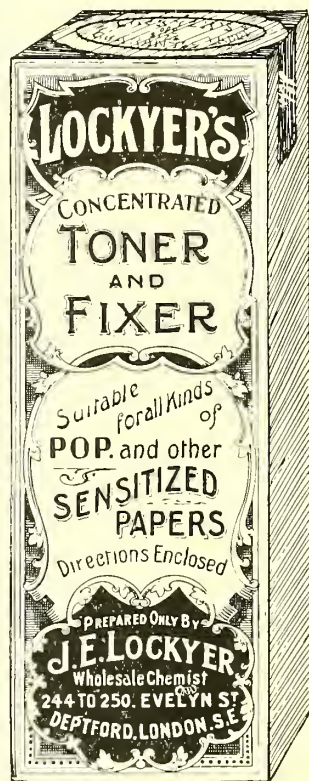
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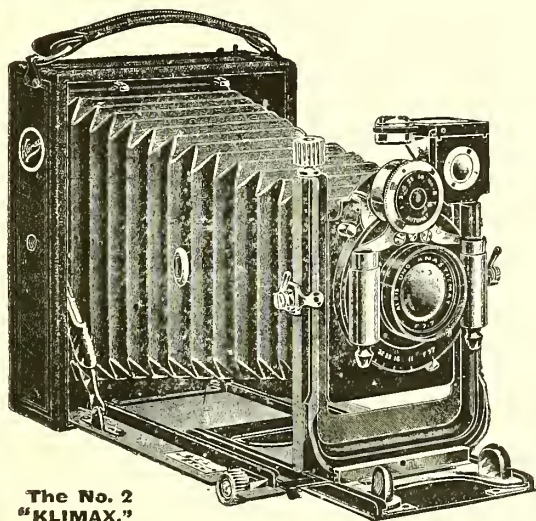
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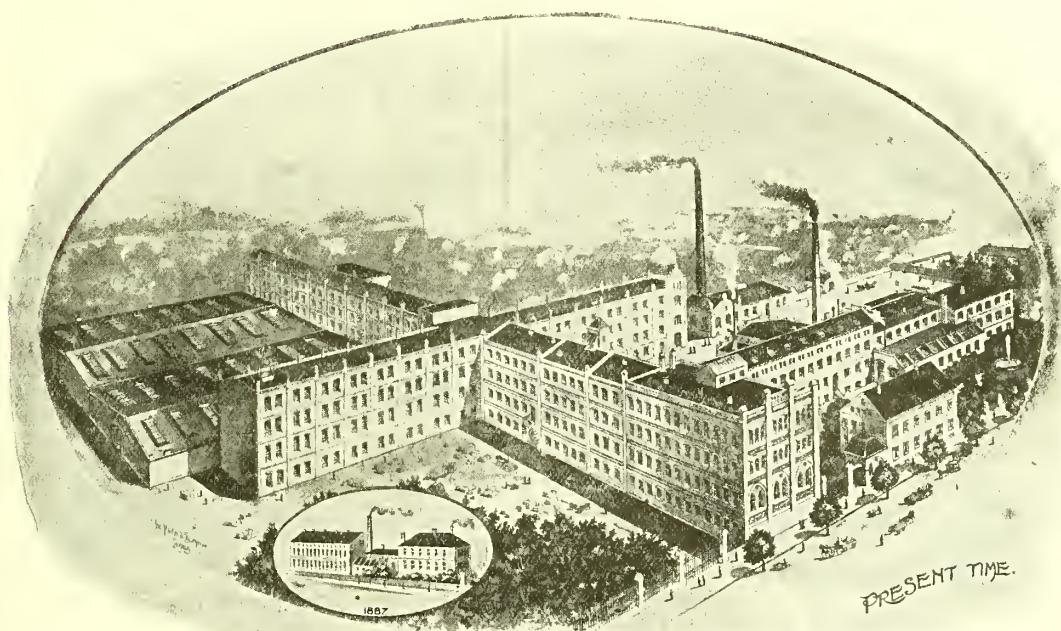
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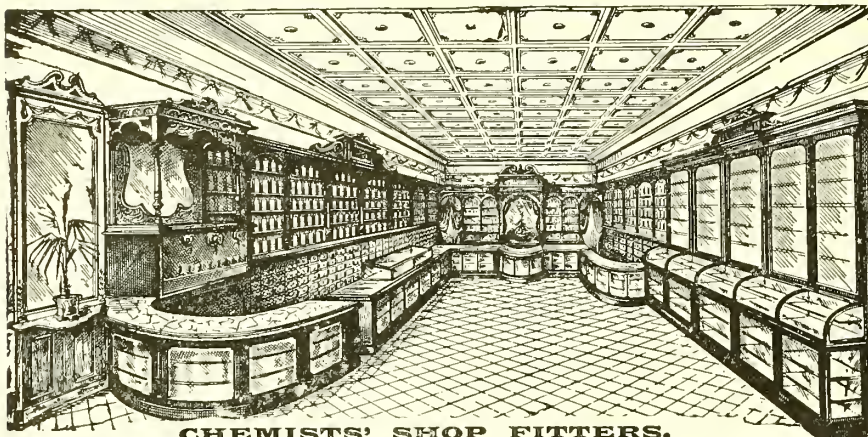
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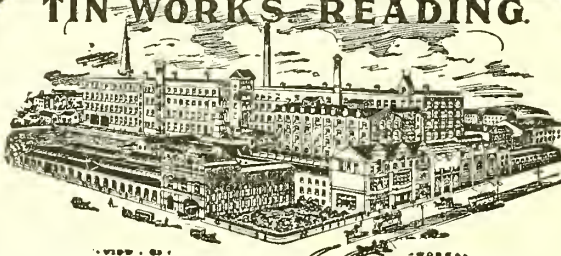
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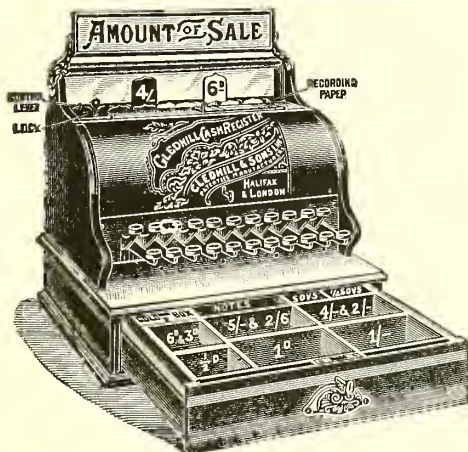
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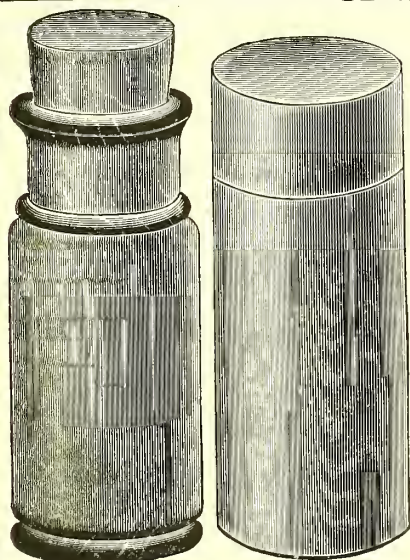
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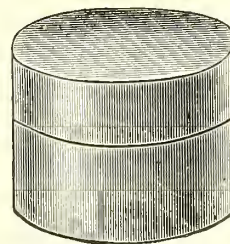
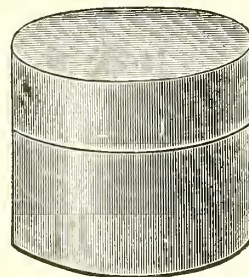
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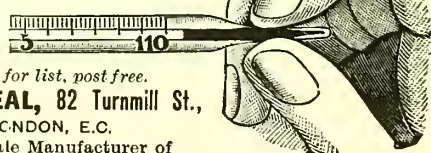
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### THE "STERILENDUM" ENEMA.

Sterilizable in its entirety.

Fitted  
with  
Aseptic  
Glass  
Pipes  
and  
Valve.



Complete  
in  
Enamelled  
Tin  
Box.

### THE "AGRIPPA" BAND VALVE.

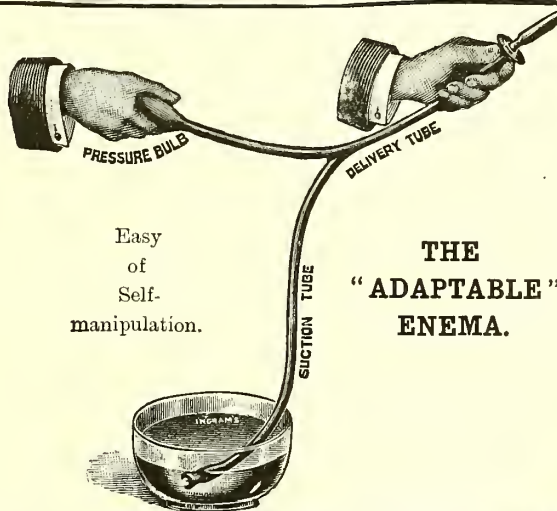


Grips the bottle tightly  
and will not slip off.

### J. C. INGRAM & SON,

THE  
LONDON  
INDIA  
RUBBER  
WORKS,

HACKNEY WICK,  
N.E.



Easy  
of  
Self-  
manipulation.

### THE "ADAPTABLE" ENEMA.

### J. C. INGRAM & SON,

THE  
LONDON  
INDIA  
RUBBER  
WORKS,

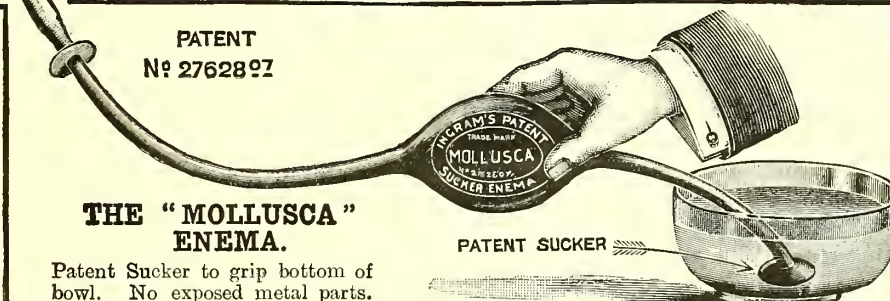
HACKNEY WICK,  
N.E.

Head  
Office:  
LONDON.

PATENT  
No 2762807

### THE "MOLLUSCA" ENEMA.

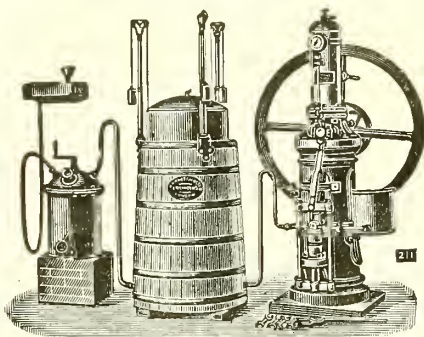
Patent Sucker to grip bottom of  
bowl. No exposed metal parts.



PATENT SUCKER

DEPOTS  
throughout  
the World.

# THE BEST HOUSE IN THE WORLD for all requirements — of the — MINERAL WATER TRADE



## THE "NIAGARA."

This type is fast superseding all other makes, and is used in the leading manufactories of the world.

Size	Producing capacity per day	Price, with gas-making apparatus
X	100 dozen	£20
W	300 "	£45
U	450 "	£52
T	600 "	£70
S	1,200 "	£85
R	2,500 "	£135

Are all fitted for Hand and Power.

NOTE.—We include all necessary Connecting Pipes free without extra charge, so that the machinery is ready for work upon arrival.  
FOR LARGER SIZES SEE CATALOGUE.

## THE "LILLIPUTIAN."

Complete with Gas-making Apparatus, all pipings and connections included.

No. 1 size, producing 600 dozen in 10 hours	..	..	£62	0	0
No. 2 " " " 1,000 " " "	..	..	£75	0	0

No. 1 is fitted for Hand Power; No. 2 for Motive Power.

## THE "LANCASHIRE."

Complete with Gas-making Apparatus, all pipings and connections included.

No. 0 size producing 2,500 dozen in 10 hours	..	..	£165	0	0
No. 1 " " " 1,500 " " "	..	..	£131	0	0
No. 2 " " " 1,200 " " "	..	..	£100	0	0

## THE "COMPACT."

For Use with Compressed Carbonic Acid Gas.

In use by the leading Chemists, Hotels, Hospitals, and Public Institutions throughout the United Kingdom.

THE MOST SUCCESSFUL MACHINE OF THE TIMES THE PERFECTION OF SIMPLICITY. AUTOMATIC CARBONATION.

### PRICES:

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles and Syphons	..	..	£60	0	0
No. 2.—Capacity 600 dozen per day, including Filling Machines for Bottles and Syphons	..	..	£48	0	0
No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles or Syphons	..	..	£33	0	0

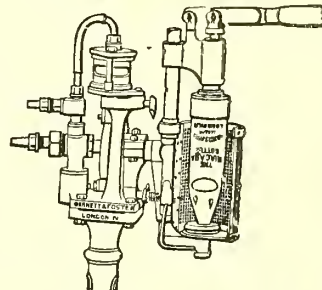
## THE "CYLINDER" SODA WATER PLANT.

This is a Cheap Apparatus, designed for use with Compressed Carbonic Acid Gas, for serving Soda Water on the counter by means of a silver-plated counter stand.

PRICES FROM £15.

Specialty suitable for Hotels, Chemists, Confectioners, Pastrycooks, &c.

## THE "IDEAL."



With Syrup Pump .. £9 9 0  
Without Syrup Pump .. £7 7 0

FILLING MACHINE, for "Codd's Niagara" and all kinds of Internal Stoppered Bottles.

The Quickest and most reliable Filling Machine on the market. SYRUPS AND FILLS AT ONE OPERATION. No Waste.

## THE "GALWAY."

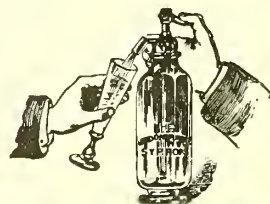


With Syrup Pump .. £10 10 0  
Without Syrup Pump .. £5 5 0

FILLING MACHINE FOR SYPHONS.

THE SIMPLEST OF ANY SYPHON FILLER YET INTRODUCED.

BALL-STOPPERED BOTTLES, SYPHONS,



AND CORK BOTTLES AT LOWEST RATES. Prices upon application.

# SPECIALITY: "RED CLUB BRAND" SOLUBLE ESSENCES.

Shipped in Bond. . . . Prices and Samples on application.

## BARNETT & FOSTER, "Niagara Works," 26<sup>th</sup> Eagle Wharf Road, London, N.

Branch House: Johannesburg, P.O. Box 1316; [Manager, Mr. CARL ALBERT.  
Cape Town, P.O. Box 1391; Manager, Mr. F. G. INGRAM. } Stocks held.  
Indian Agents: S. FITZE & CO., Ltd., Bombay, Calcutta, Karachi.



# BARNETT & FOSTER,

*Essence Distillers and Manufacturing*

*Chemists to the*

**Aerated Water, Brewing, and Confectionery Trades.**

**RED**

**CLUB**

**BRAND**

**CONCENTRATED SOLUBLE ESSENCES**

**CONCENTRATED FRUIT ESSENCES**

**CORDIAL & LIQUEUR ESSENCES**

**PURE ESSENTIAL OILS**

**RED**

**CLUB**

**BRAND**

**HARMLESS LIQUID COLOURINGS FOR AERATED BEVERAGES.**

**HARMLESS COLOURS IN POWDER FOR CONFECTIONERY.**

**"NIAGARA" SOLUBLE HEADING POWDER.**

**"NIAGARA FOAM."**

A Highly Concentrated Heading Liquid for imparting a rich, close, creamy, and lasting head to Beverages of all kinds.

**LIQUID AND SOLID PRESERVATIVES.**

**PURE SALTS FOR MINERAL WATERS.**

**"NIAGARA" SPRING WATER CRYSTALS.**

For greatly increasing the amount of Carbonic Acid Gas absorbed, thus rendering Aerated Water brisker and more sparkling.

**EXTRACTS FOR BREWING NON-ALCOHOLIC BEVERAGES.**


**FININGS FOR SYRUPS, BEERS, WINES, AND CORDIALS.**

**CONCENTRATED VINEGAR ESSENCE.**

All Herbs, Drugs, Chemicals and Materials employed by

**MINERAL WATER MAKERS, BREWERS, CONFECTIONERS,  
LIQUEUR AND CORDIAL BLENDERS.**

**MONTHLY LIST ON APPLICATION.**

 Orders for Two Gallons and upwards of Essences can be shipped in board. This quantity may be made up of different Essences, and the Bottles may be of different sizes.

Indentors when ordering should specify **"RED CLUB BRAND."**

**Telegraphic Address—"DRINKS, LONDON."**

Office and Laboratories:

**NIAGARA WORKS, 26<sup>T</sup> EAGLE WHARF ROAD, LONDON, N.**



THE NATURAL MINERAL WATERS OF

**VICHY**

(STATE SPRINGS)

**CÉLESTINS** For Diseases of the Kidneys, Gravel,  
Gout, Rheumatism, Diabetes, &c.**GRANDE-GRILLE** For Diseases of the Liver and  
Biliary Organs, &c.**HOPITAL** For Stomach Complaints, Indigestion, &c.**VICHY-ÉTAT PASTILLES** Two or three Pastilles after each  
meal facilitate digestion.**VICHY-ÉTAT COMPRIMÉS** For instantaneously producing an  
effervescing alkaline water.*Price Lists, Show Cards, Dummy Bottles, Pamphlets, &c.***CAUTION.**—Each Bottle from the STATE SPRINGS bears a neck label with the  
word "VICHY-ÉTAT" and the name of the SOLE AGENTS:—**INGRAM & ROYLE, LTD., 26 UPPER THAMES STREET, E.C.** And at LIVERPOOL and  
BRISTOL.

## THE "CONSOL" SYPHON FILLER

enjoys great popularity among chemists. With it they can assume the aggressive against active house-to-house dealers, who have been playing havoc with their trade of late. The reason is simple: The best of Soda Water can be made at threepence per dozen with the "Consol" machine. The best machine is always the simplest. There is no work with the "Consol." The Aeration is automatic. There is no slop nor spatter.

CASH OR HIRE-PURCHASE.  
SEND FOR CATALOGUE.

**BRITISH AUTOMATIC AERATORS, LTD.**

Telegrams: CONSOLARIS LONDON.  
Telephone: 6329 CENTRAL.

22, 24 & 26 PAUL STREET,  
FINSBURY, LONDON, E.C.



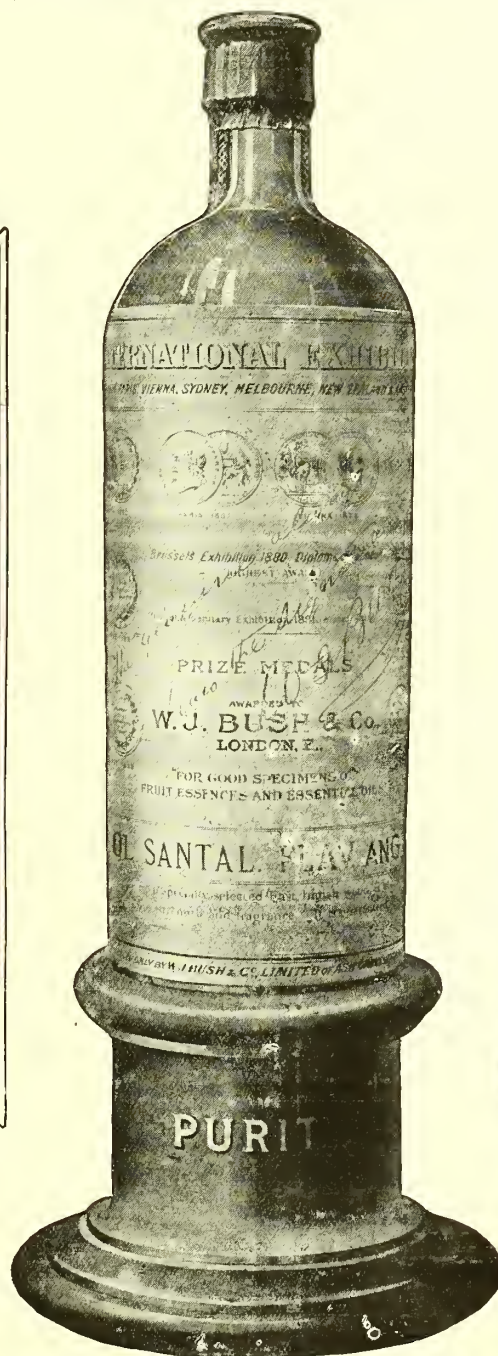
IT IS IMPERATIVE THAT CHEMISTS AND OTHERS REQUIRING

# ESSENTIAL OILS

for Medicinal Purposes should employ Genuine and Finest Qualities only.

These can be obtained from W. J. BUSH & CO., LTD., who guarantee the following to be absolutely pure and to pass the tests of the British Pharmacopœia, 1898.

OL. AMYGDALAE ANG.  
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FRUIT ESSENCES  
SOLUBLE ESSENCES

BUSH-OTTOS  
Possessing the aroma of the natural flowers to a remarkable degree.

SYNTHETIC PERFUMES  
HARMLESS COLOURS  
CARMELS  
FRENCH ESSENTIAL OILS  
TERPENELESS ESSENTIAL OILS  
OIL OF ORRIS CONCRETE  
FRENCH CREAM HEADINGS  
CONCENTRATED FRUIT JUICES  
PRESERVATIVES

**W. J. BUSH & CO., LTD.,** Ash Grove, Hackney, LONDON, N.E.

HEAD OFFICES:

# "Prana" SPARKLETS

## Our 1909 Showcard

showing the new  
← Double-Sized ::  
Syphon——

See next page for prices.



¶ Small Reproduction of our 1909 Showcard. The original is finely printed in colours.

¶ We have had numerous demands from the public for a Syphon containing a larger amount of liquid than the present one. The new double-sized "Prana" Sparklet Syphon is designed to meet this requirement. It is charged with two of the same B bulbs as are used with the present Syphon and with the Sparklogene.

## The Finest "Counter Attraction"

AERATORS, Limited.



# "Prana" SPARKLETS

Notice the  
New Prices.

1. The present "B" Syphon will be advanced on May 1, as follows :

Retail	-	-	-	from	2/-	to	2/6	each.
Trade	-	-	-	from	18/-	to	22/6	per doz. net.

2. The new Double-Sized Syphon :

Retail	-	-	-	-	-	@	4/-	each.
Trade	-	-	-	-	-	@	39/-	doz. net.

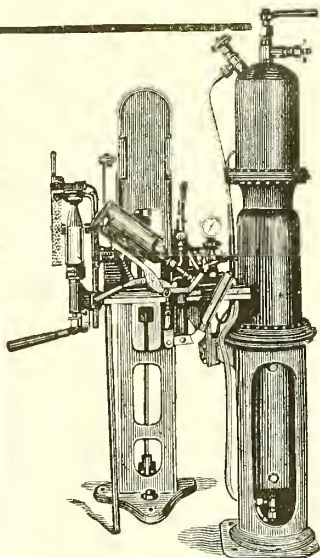
3. The "Syphons-de-Luxe" will be reduced on May 1, as follows :

	OLD PRICE.		NEW PRICE.	
	Trade.	Retail.	Trade.	Retail.
Small Syphons -	65/-	7/6	45/-	5/-
Sparklogene -	136/-	15/-	90/-	10/-
Sparklovine -	96/-	10/6	58/6	6/6

Double-Sized "Syphons-de-Luxe" Trade 67/6 net ; Retail 7/6.

for the Colonial Chemist.

Upper Edmonton, LONDON, N.



## AERATED WATERS

to ensure PURITY, should be manufactured by Chemists.

The best Machine for this purpose is the "**ALPINE**," the most perfect AUTOMATIC SATURATOR on the Market.

Every bottle or syphon before filling has three Aerations, giving splendid results.

Simple and easy to manage by one attendant. No pumping required, water being attached from main or cistern.

Sole Makers:

# **RICHD. ROBERTS & SONS,**

34, 36 & 38 Seel Street, LIVERPOOL.

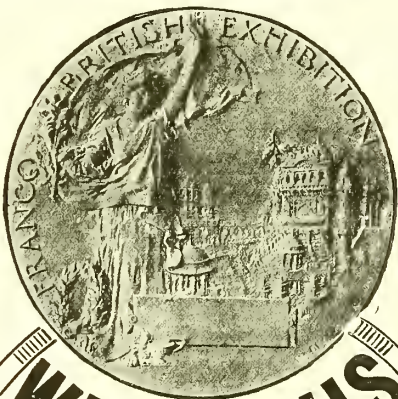
# A. MILLAR & CO., LTD., DUBLIN PURE ORANGE WINE

(VINUM AURANTIL, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)

London Agent: T. W. CASHMAN, 16 Mark Lane, E.C.

Telephone No.: 8067 LONDON WALL.

The  
Gold  
Medal  
Wine  
Tonic



London.  
1908.

## WINCARNIS

**DO** Stock it? It means quick **YOU**  
**YOU** sales and a steady profit if **DO**

SEND FOR LIST.

All Registered Chemists can sell Wincarnis with Quinine without a licence. Why not you?

Medical men in your district order it often, and there is a large public demand. [18]

By Special Appointment to the King & Queen of Spain.

COLEMAN & CO., LTD., 21 Wincarnis Works, NORWICH.

# SAPONINE

(SOLUBLE),

MANUFACTURED BY

## C. W. FIELD,

Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.

Wholesale Drug Houses are invited to write to

## MELROSE-DROVER, LTD.

LEITH.

for Prices and Samples of NON-DEPOSITING

# ORANGE WINE

B.P. 1898.

considered the best in the Market due to superior quality. Specially prepared, also for exportation.



# Saponine

*Patented in Gt. Britain, Germany,  
France, Austria, & U.S.A.*

**FOR THE PRODUCTION OF**

## Foam in Beverages.

Saponine produces a lasting foam in such beverages as Soda Water. It is the best and only material for the manufacturing of

**GUM FOAM, LIQUID GUM, &c.**

No Boiling or Filtering required.

**ABSOLUTELY SOLUBLE.**

Possesses all the advantages of Soap Bark without its drawbacks.

Stocks held by my Sole Agents for the United Kingdom : Messrs. PETRI BROS., 39 Lime Street, London, E.C.  
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For the United States of America :—Messrs. H. LIEBER & CO., 1 Platt Street, New York.

MY AGENCY FOR ALL OTHER COUNTRIES TO BE LET.

**DR. RICHARD STHAMER,**  
*Chemical Works, Hamburg 8.*

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For sound and accurate internal construction our Syphons are well known in all parts of the world. The interior of our Syphons is accurately machined throughout and perfectly finished. You cannot, for instance, unscrew with your finger and thumb the caps of syphons manufactured by us.

*Please compare our Samples and Prices of*

**Tin Top Syphons**

**Silver-lined and Silver-plated Syphons**

**Porcelain Lined Syphons**

**Patent Chinaways  
Syphons**

No metallic contact. Delivers superior  
Soda Water. Reduced frothing of  
Lemonade.

*As supplied to H.M. THE KING.*

**IDRIS & CO., Ltd.,** :: SYPHON ::  
MANUFACTURERS

**35-43 KING'S ROAD, ST. PANCRAS, LONDON, ENG.**

Telephone : 1277 NORTH.

Telegrams : "IDRIS LONDON."



TO AERATED WATER MANUFACTURERS.

DELICIOUS  
**AERATED BEVERAGES**

ARE MADE FROM

**HAY'S****Cream Soda Essence,****Cream Lemon Essence,****Cream Raspberry Essence**

(MADE FROM THE FRUIT),

**Cream Strawberry Essence**

(MADE FROM THE FRUIT),

**Claret and Lemon Essence,****Cherry Cider Essence,****Lemon Squash Essence**

(BRIGHT OR CLOUDY),

**Lime Juice and Soda Essence,****Kola Champagne Essence,****Orange Champagne Essence,**

AND

**'Pale Dry,' Ginger Ale Essence.**

SAMPLES AND FULL DIRECTIONS FOR USE FREE ON APPLICATION.

ATTRACTIVE LABELS AND SHOWCARDS SUPPLIED.

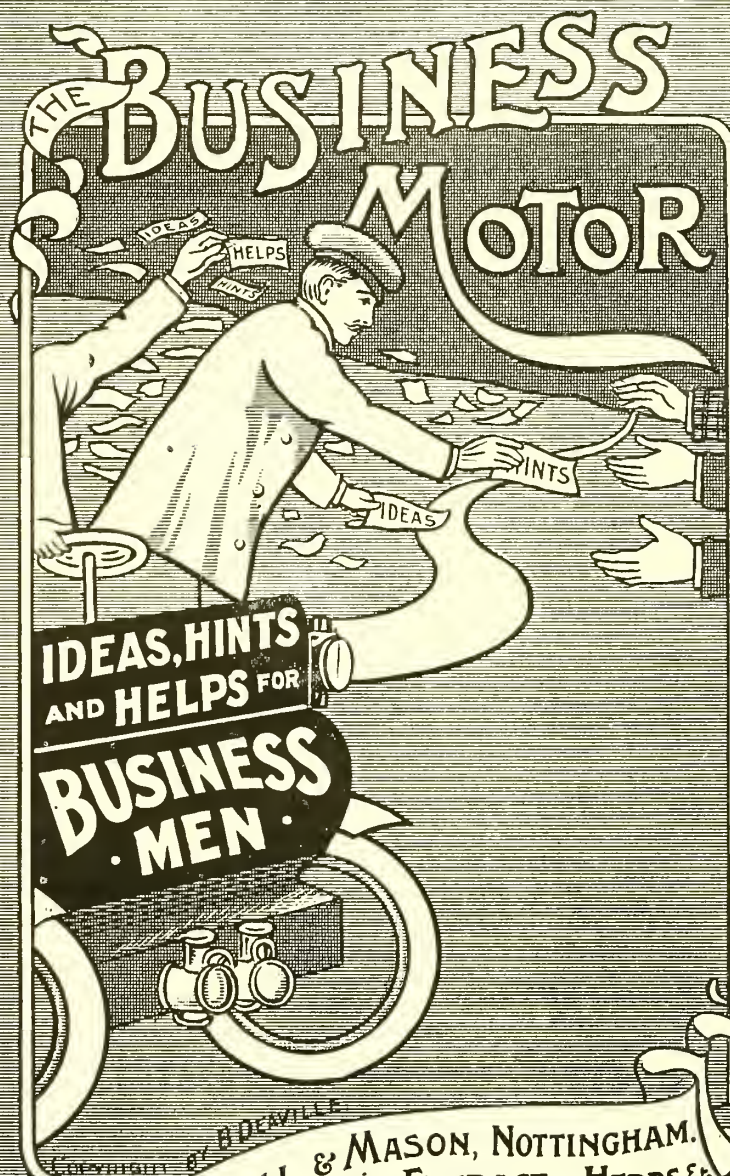
Orders for Two Gallons and upwards of Essence may be shipped under Bond.

Indentors when ordering should specify HAY'S Manufacture.

**WILLIAM HAY, LTD., Manufacturing Chemists, HULL & LONDON.**Head Office and Laboratories—HULL, ENG. London Depot—3 YORK STREET, WALWORTH, S.E.  
All inquiries to be addressed to Head Office.



# SMART HINTS



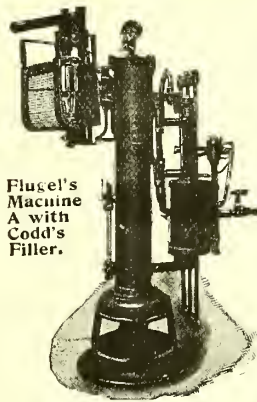
IDEAS, HINTS  
AND HELPS FOR  
**BUSINESS  
MEN**

Copyright by B. DEWILLIE  
FROM NEWBALL & MASON, NOTTINGHAM.  
PROPRIETORS OF MASON'S EXTRACT OF HERBS, &c.

A  
COPY OF THIS  
USEFUL  
**BUSINESS  
HELP**  
WILL BE SENT  
POST FREE  
ON RECEIPT  
OF  
TRADE CARD

## FOR BUSINESS MEN.





Flugel's  
Machine  
A with  
Codd's  
Filler.

## FLUGEL'S AUTOMATIC AERATED WATER MACHINES.

**Absolutely Automatic. No Work.**  
**CALL ON US YOURSELF.**

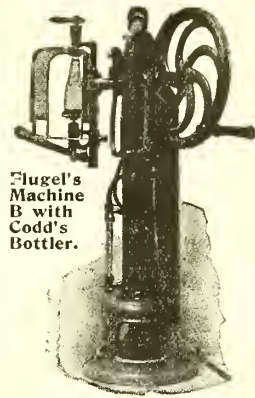
Capacity—400 Dozen Bottles Per Day. No Technical Knowledge Required.  
Syphons, and all kinds of Bottles filled.

Machine A.—To connect only to water pipe, entirely automatic.  
Machine B.—With hand pump for places without water pressure.

Write immediately for our Illustrated Catalogue.

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*Every Chemist should have one; the only way to meet direct competition.*



Flugel's  
Machine  
B with  
Codd's  
Bottler.

**ESTABLISHED 124 YEARS.**

## R. J. FULLWOOD & BLAND'S

*Celebrated Preparations are used and recommended at the  
principal Dairy Institutes, and have the largest sale in  
Great Britain.*



TRADE MARK.  
**£300 IN PRIZES**  
given annually to  
users of  
R. J. F. & B.'s  
prepara-  
tions.

**ANNATTO**  
Liquid and Cake.  
The Strongest and Brightest.

**CHEESE RENNET**  
Strength 1'12000.  
(Liquid, Powder and Tablets.)

**BUTTER COLOR**  
"Oleo" and "Sunbeam."

**PRESERVATIVES**  
Powder and Liquid.  
(Guaranteed Harmless.)

**ESS. OF RENNET**

**JUNKET POWDER**

**JUNKET TABLETS**  
The  
3 latter  
Preparations  
are on the  
**P.A.T.A. LIST,**  
and bear a profit  
of about  
**40 per cent.**

Manufactory—**STEAM ANNATTO WORKS, HOXTON, LONDON, N.**

Telegraphic Address—"SACARINO LONDON."

Telephone Nos. 197 Bank and 1529 Central.

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Offices—165 Queen Victoria Street, London, E.C.

# SACCHARIN,

**Made in**  
**England.**

**Highest Possible Strength.**—550 times sweeter than pure Cane Sugar. This strength is recommended in preference to any other.

**Ordinary Strength.**—330 times sweeter than pure Cane Sugar.

**Soluble.**—500 and 300 times sweeter than pure Cane Sugar.

**Crystals.**—450 times sweeter than pure Cane Sugar.

**Crystalline.**—440 times sweeter than pure Cane Sugar.

*N.B.—The Three last Strengths are Soluble in Cold Water.*

**THE SACCHARIN CORPORATION, LIMITED,** are the owners of All Patents for the United Kingdom and Colonies, except India and Canada, for the commercial manufacture of Saccharin, and their Saccharin is the only Saccharin that can be purchased without RISK OF LEGAL PROCEEDINGS or the necessity of ANY INDEMNITY.

## The Saccharin Corporation. Ltd.

Manufactory—8 and 9 Ewer Street, Southwark, London, S.E.

# BRAND'S BRITISH PRODUCTIONS

## FOR INVALIDS



IN GLASS.



IN TINS.

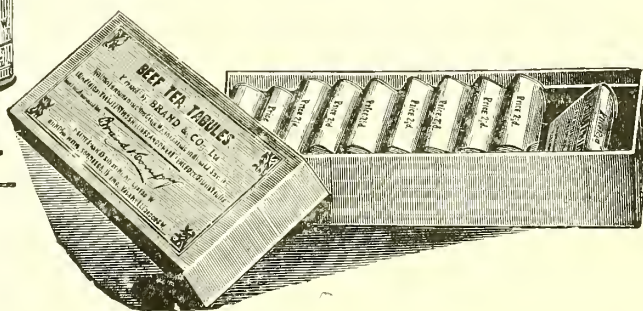
Have upheld  
their high  
reputation  
for

FIFTY  
YEARS,

and are

RECOMMENDED

BY THE MEDICAL PROFESSION  
ALL OVER THE WORLD.





# BENGER'S

The "LANCET"  
describes it as :

"Mr. Benger's  
admirable pre-  
paration."

The "BRITISH  
MEDICAL JOUR-  
NAL" says :

"Benger's Food  
has by its excel-  
lence established  
a reputation of  
its own."



**NOTICE TO  
THE TRADE.**

**NOTICE TO  
THE TRADE.**

A Novelty made to stand upon the Counter, Shelf, or Window.  
Takes up little space.

BENGER'S FOOD, Ltd., HAVE JUST ISSUED, AS PER SPECIMEN ILLUSTRATED ABOVE, A HANDSOME WINDOW DISPLAY CARD, PRINTED IN COLOURS, WHICH THEY WILL BE PLEASED TO SUPPLY TO ANY MEMBER OF THE WHOLESALE OR RETAIL TRADE UPON APPLICATION.

Kindly mention your Requirements on your Indents.

**BENGER'S FOOD, Ltd., MANCHESTER, England.**

And all Wholesale Houses and Shippers.

On the P.A.T.A. Showcards & Handbills on Application.

**PURE FOOD CASEIN** OF THE . . .  
HIGHEST QUALITY.

For Infants' &amp; Invalids' Foods, Diabetic Bread, Biscuits, &amp;c.

SOLD IN TIN-LINED AND SEALED CASKS OF 1 CWT, EACH, OR PACKED AND LABELLED FOR THE TRADE,

ALSO

**MILK, WHEY & EGG POWDER**Guaranteed Pure, and 100 per cent. soluble  
in water of any temperature . . .**We Manufacture between 20  
and 30 Milk and By-products  
of Milk for every known use.**

MANUFACTURERS:

**CASEIN, LTD.,**CULVERT WORKS,  
BATTERSEA.**LONDON, S.W.**

Also in FRANCE and UNITED STATES,

TRADE MARK.



REGISTERED.

**True Bermuda Arrowroot**

is shipped only by W. T. James, Hamilton, Bermuda, who desires to warn buyers against "so-called" Bermuda Arrowroot which is being freely offered and sold in the United Kingdom as genuine Bermuda. Recommended by the Medical Faculty.

For Samples of the Genuine Bermuda Arrowroot apply to

**George Harker & Co., Ltd., 101/103 Upper Thames Street, London, E.C.****Dr. Allinson's Food Preparations.****Natural Food, Brunak, Power, &c.****NOTICE TO THE TRADE.**

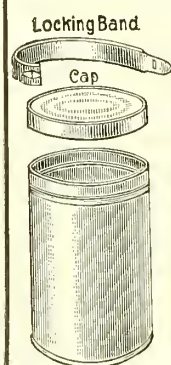
We print a list of the WHOLESALE HOUSES who keep above preparations in stock; if for any reason you have a difficulty in obtaining supplies, please send post-card direct to us, and a copy of the list will be sent to you by return.

**NATURAL FOOD COMPANY, LIMITED.**

Room 227, 305 Cambridge Road, Bethnal Green, LONDON, E.

**Handbills, Booklets, Showcards, &c., Free.****Plate Glass Window Shelves.****SPECIAL OFFER of 2,500 feet for  
immediate Sale at Clearance Rates.****EXAMPLE:**—Three Plate Glass Shelves, 36 ins. long x 6, 8 and 10 ins. wide, polished fronts and ends; two 5ft. iron screw uprights, six adjustable brackets, all complete and quite new, for **25/-** Ditto, 48 in. long, **30/-** Other sizes *pro rata*.**WINDOW SHELIVING Specially Designed.****AYRTON-GRAHAM Ltd.**

106 Duke Street, LIVERPOOL.

**Finest and Simplest  
.. AIR-TIGHT ..  
CANISTERS in the World.  
(PATENT.)**Specially suitable for  
Infants' Food, Malt Ex-  
tracts, Health Salines,  
Ointments, etc., etc.Full Particulars from the  
Sole Licensees—**SHIRLEY BROS. Ltd.**Whitecross Works,  
ROCKINGHAM ST., S.E.**Darter Wilkinson & Co.**

MANUFACTURERS OF

**Pleated Paper  
Bottle Caps.****Dish & Dessert  
Papers, &c.**

NO. 4. MACHINE-MADE

Nos. 0, 1, 2, 3, 10, 20, 30, 3B. for Phials @ **5d.** per gross  
,, 4, 4B, 40 (3 to 6 oz.) ... .. **7d.** "  
,, 5, 5B, 50, 5½ (8 to 10 oz.) ... .. **8d.** "  
,, 6, 6B, 60 (Pints) ... .. **10d.** "**23 to 25 Sandland Street, London, W.C.**



# MIOL

The most powerful, reliable and scientific food for the treatment of Neurasthenia, Tuberculosis and wasting in all conditions.

Doctors are giving it preference to everything else, because the results are so soon perceived.

Miol is now being used in a large number of Hospitals and Sanatoria throughout the entire world.

## PRICES ARE

*Retail:*

**1/1½ 2/9 4/6**

*Wholesale:*

**9/- 24/- 39/-**

Unstamped.

5% discount on £5 orders  
carriage paid, cash with  
order.

Export f.o.b. Great Britain,  
British port.



MIOL is stocked Wholesale by:

Treacher & Co., Bombay.  
Bathgate & Co., Calcutta.  
Smith, Stanistreet & Co.,  
Calcutta.  
De Souza & Co., Rangoon.  
Willett & Co., Shanghai.  
Matheison & Co., St. John's,  
Newfoundland.  
Lennon, Ltd., South Africa.  
Fowler & Co., Adelaide.  
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Mr. Whittle, Representative,  
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Evans Sons & Co., Montreal.  
Henry Berry & Co., Sydney  
and Brisbane.

Retail in most Continental  
Pharmacies.

*Showcards and advertising matter sent to any part of the world.*

## MIOL MANUFACTURING CO. LTD.

82 Southwark Bridge Road, LONDON, S.E.

# MENLEY & JAMES, Ltd.

Menley House, 39 Farringdon Road, London, E.C.

are now introducing to the Medical Profession

<b>GLIDINE</b>	=	=	(A pure Vegetable Protein Food).	Retailing at
				<b>2/9</b> and <b>5/-</b> per tin.

<b>IODOGLIDINE</b>		(An organic Compound of Iodine with pure Vegetable Protein.)	Retailing at
			<b>3/-</b> per phial of 20 tablets.

<b>LAXOL</b>	=	=	(Castor Oil made palatable).	Retailing at
				<b>1/1½</b> per bottle.

*Price List will be sent on application.*

## "SOLAZZI" LIQUORICE JUICE

THE CHEMISTS' BRAND.

**'The Lancet' says: 'Of Standard Purity.'**

Recommended also by 'The British Medical Journal,' 'Health,' 'The Chemist and Druggist,' 'Food and Sanitation.'

ASK FOR SHOWCARDS AND HANDBILLS. To be obtained of all Wholesale Houses.

### E. ERNEST JACKSON,

Crediton, Devon,

MANUFACTURER OF

Proprietary Lozenges prepared  
with the greatest accuracy.

Goods carefully packed  
for Export.

**MEDICINAL LOZENGES AND JUJUBES, . . .**

**COMPRESSED TABLETS, REFINED LICORICE.**

**FLOWER FLAVGURED CACHOUS, &c., &c.**

*Sole Proprietor of "Réale" Brand of Pure Licorice.*

LONDON DEPOT: 291 KINGSLAND ROAD, N.E.

Registered Telegraphic Address: "Jackson Crediton."



# THOS. GUEST & CO.

## MANCHESTER.

Write us for Samples and Prices of our  
**NEW SPRING LINES**

COMPOUND

### **SARSAPARILLA AND SULPHUR TABLETS**

Packed in 4-lb. Hinged Glass Lid Boxes for Counter  
and Window Show with Handsome Showcards.

EFFERVESCING

### **HYGEIA SALT**

In 4-oz. and 8-oz. Tins.

### **LIME JUICE BLOOD SALT**

Packed in Enamelled 4-oz. Tins, with Large  
Dummies for Window Show.

# POTTER & CLARKE, Limited.

## SARSAPARILLA

### and its Preparations.



### Extract of Jamaica Sarsaparilla Compound. No. 1.

The finest Extract obtainable. New label printed in colours. Packed in handsome boxes for counter display.

$\frac{1}{4}$ oz., in tins	...	...	...	1/6 per doz.
$\frac{1}{2}$ oz., in pots	...	...	...	2/6 "
1 oz.	"	...	...	4/6 "

Our No. 1 Extract always sent unless otherwise ordered.

### Extract of Jamaica Sarsaparilla Compound.

No. 2. In Printed Cartons.

$\frac{1}{4}$ oz. in tins	...	...	...	...	1/2 per doz. to account; gross lots, 12/- nett.
$\frac{1}{2}$ oz. in pots	...	...	...	...	2/- " " " 20/- "
1 oz. "	...	...	...	...	3/6 " " " 36/- "

This Extract should be distinctly ordered as No. 2 or "In Cartons."



### Extract of Jamaica Sarsaparilla.

(In Opal Pots.)

Fitted with Celluloid Lids.

Packed in 1 doz. Outers.

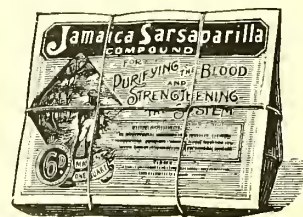
$\frac{1}{2}$ oz. Opal Pots	...	...	...	...	2/6 per doz.
1 oz. "	...	...	...	...	4/- "

This Extract should be distinctly ordered "In Opal pots."

### Sarsaparilla Packets, Compound Jamaica.

Contains JAMAICA SARSAPARILLA, Sassafras, Liquorice Root, Mezerion, and Guaiacum. Absolutely the best packet for style and quality of ingredients. New litho label in colours with most artistic design. Packed in 1 doz. cases.

6d. packets (new label)	3/6 per doz.	Gross lots, 36/- nett.
3½d. "	2/- "	" " 21/- nett.



#### WE OFFER TO ADVANTAGE

#### JAMAICA SARSAPARILLA Brown.

Cut and split.

DECOCTION SARSÆ.

#### JAMAICA SARSAPARILLA

Red.

Cut and split.

Price Lists on application.

**POTTER AND CLARKE** DRUG MERCHANTS  
Limited IMPORTERS OF HERBS  
60, 62 & 64, ARTILLERY LANE, LONDON, E. ROOTS AND BARKS.  
54 & 56 GREAT ANCOATS STREET MANCHESTER



# THE BERKEFELD FILTER CO., LTD.

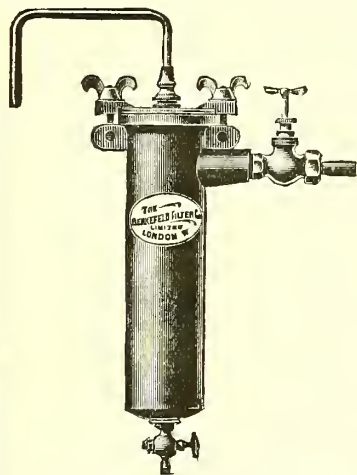
Telegrams:  
"TUBIPORES LONDON."

121 OXFORD STREET, LONDON, W.

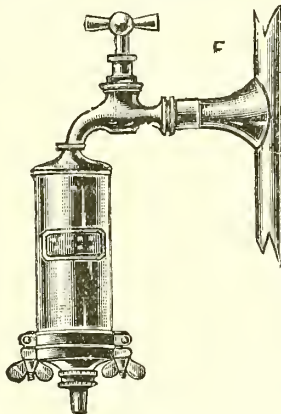
Telephone:  
3994 GERRARD.

Contractors to H.M.'s Government: Admiralty, War Office, India Office, Crown Agents for the Colonies, Office of Works, &c., and many Foreign Governments.

The "BERKEFELD" FILTER is a GERM-PROOF FILTER  
& is made as Pressure, Drip, Pump & Syphon Filter.



One-seventh original size. Pattern H, 30/-



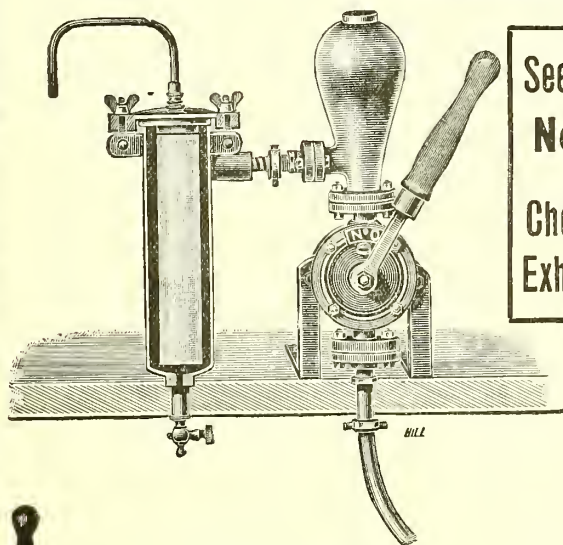
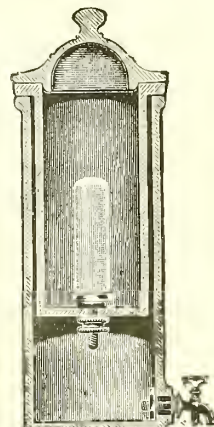
One-sixth original size.  
Pattern F, 22/6



Pattern A.

2½ pints ... 7/-  
5 " ... 8/6  
6 " ... 10/-

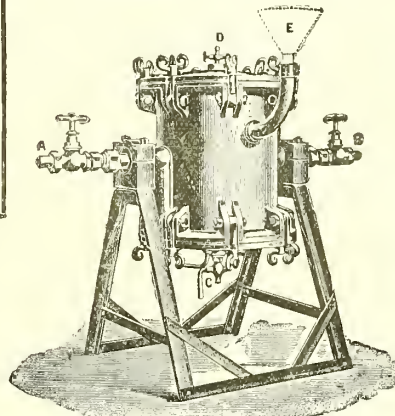
Pattern B  
1 1 2 3 4  
1½ 2½ 4 6  
No. of Cylinders  
gall. total capacity



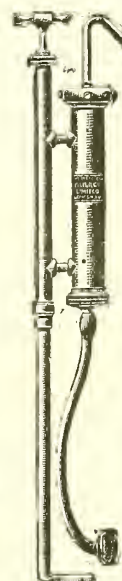
Pattern S.H., 90/-  
Smaller Size, Pattern S.F., 70/-

See Stand  
**No. 83**  
AT  
Chemists'  
Exhibition.

**LARGE SUPPLY FILTERS.**  
Fitted with 3, 7, 15, 25 and 36 Cylinders.  
Most essential for Mineral Water  
Manufacturers.



P 3 £4 0 0 T 15 £16 10 0  
P 7 £7 10 0 T 25 £21 10 0  
T 36 £28 0 0



Pattern N.  
Without Stirrup, 35/-  
With " 42/-

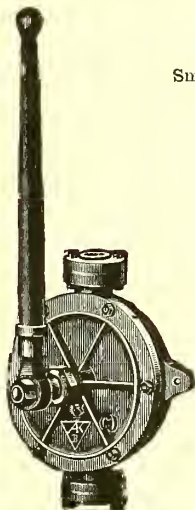
## "WINCO" SEMI-ROTARY WING PUMPS.

CHEAP. DURABLE. RELIABLE.

Over 2,000 have been supplied to H.M.'s Government and given complete satisfaction.

No.	Size of Suction and Delivery Pipes	Approximate Weight.	Total Height without Loose Flanges.	Approximate Capacity per hour.	Speed per minute Double Stroke.	PRICES.	
						Iron with Brass Valves	All Brass.
00	3 inch	6½ lbs.	6 inches	160 gals.	110	16/-	23/6
0	3 inch	11 "	7½ "	250 "	104	18/-	27/6
1	3 inch	13 "	7½ "	390 "	100	20/-	30/6
2	1½ "	18 "	8½ "	525 "	90	24/-	39/6
3	1½ "	25 "	9½ "	660 "	85	29/-	55/-
4	1½ "	31 "	10½ "	920 "	80	36/-	66/-
5	1½ "	39 "	11½ "	1,120 "	75	40/-	82/6
6	1½ "	46 "	13 "	1,320 "	60	48/-	100/-
7	2 "	70 "	14½ "	1,700 "	60	58/-	132/-
8	2 "	80 "	15½ "	2,300 "	55	75/-	176/-
9	2½ "	110 "	16½ "	2,750 "	50	100/-	212/-
10	3 "	156 "	18½ "	3,150 "	45	135/-	286/-
11	3 "	176 "	20½ "	4,000 "	45	165/-	352/-

The Pumps No. 00 to 6 have oval, No. 7 to 11 round flanges.  
The capacities given are calculated upon a vertical suction of 3 feet and a vertical delivery of 3 feet.



# "DIAMALT"

The Purest and Highest Diastasic Malt Extract on the Market.

See "LANCET," "BRITISH MEDICAL JOURNAL,"  
&c., Reports.

British DiaMalt Works, Sawbridgeworth, Herts.

## ESTABLISHMENTS ABROAD:

DiaMalt Works, Stadlau, near Vienna (Austria).

do. Steinbruch, Hungary.

do. Allach, near Munich, Germany.

do. Cincinnati (Ohio), America.

"DIAMALT" is on the P.A.T.A. List, and obtainable  
from all the Wholesale Houses, or

The BRITISH DIAMALT COMPANY, 11-13 Southwark St., London, S.E.

"THE CHEMIST AND DRUGGIST"

## Summer Issue and Jubilee Number.

JULY 31, 1909.

CIRCULARS AND PRICE LISTS INSERTED.

Established  
1855.

ROBINSON'S ORIGINAL

Excise Drawback on  
Export Orders.

# CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
Anethi, Concent.	4/- "	" Flor Aurant.	8/6 "	" Pimentæ "	4/- "
" Anisi "	4/- "	" Sumbuci Conc.	8/6 "	" Pulegii "	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosemarini "	4/- "
" Carui "	4/- "	" Menth. Pip. Conc.	4/- "	" Rosæ "	8/6 "
" Cinnam. Ver. Conc.	6/- "	" Ang. Conc.	6/- "	" Virgin "	10/6 "

The above may be had in ½-lb., 1-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P. 1898).

Samples of any of the above sent free on application from

R. ROBINSON & CO., LTD., Distillers and Brewers of British Wine. CHURCH ST., PENDLETON, MANCHESTER.  
Telephone: 138 Pendleton.



**ENO'S**

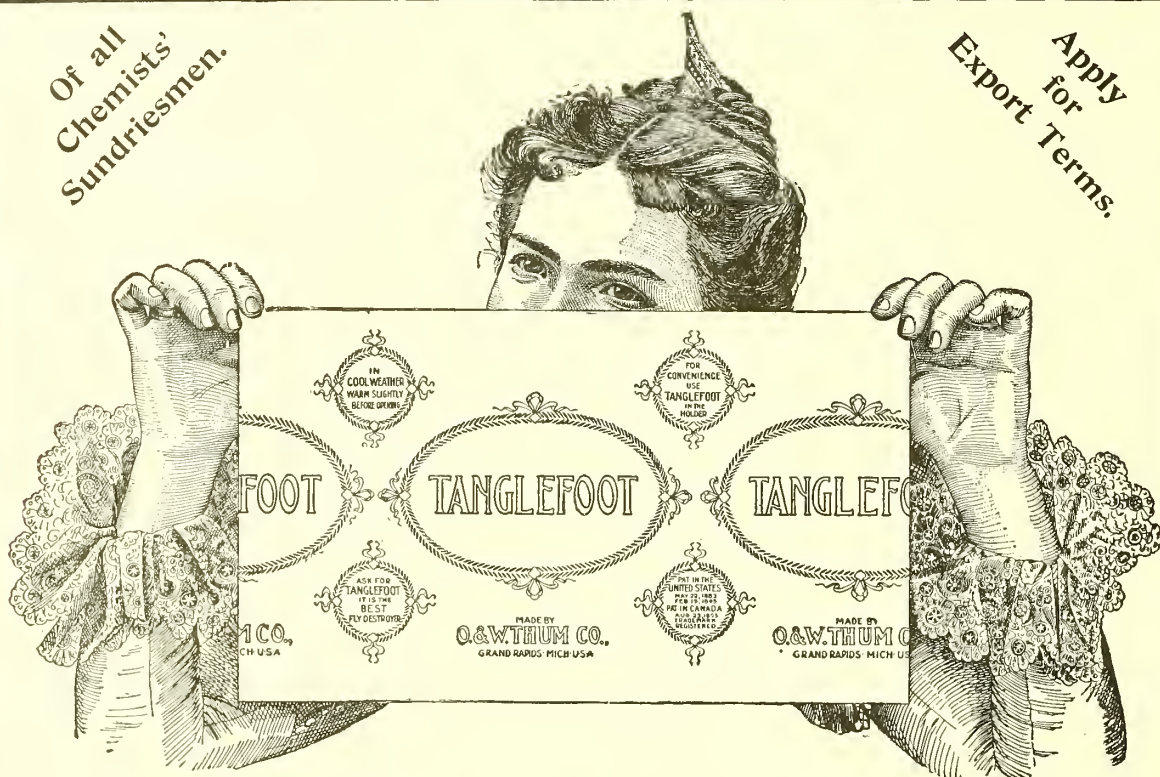
**"FRUIT**

**SALT."**

**Prepared only by J. C. ENO, Ltd., 'FRUIT SALT' WORKS, LONDON, S.E.**

Of all  
Chemists'  
Sundriesmen.

Apply  
for  
Export Terms.



## Sir James Crichton Browne,

in his Presidential speech at the Annual Conference of the Sanitary Inspectors' Association, on August 6th, said:

"The Fly-plague in South Africa was markedly diminished wherever punctilious care in the prompt removal of all refuse from the vicinity of the camp was combined with a liberal use of

### TANGLEFOOT FLY PAPER.'

*The Times*, August 9, '02.

#### PRICES.

1 Case (containing 10 Boxes) .... 15/-, carriage paid 1/- extra.  
5 per cent. Reduction on 5-case orders.

Sample Box 150 Sheets .... 5/- post paid.

EVERY SHEET HERMETICALLY SEALED.

50 Sheets, like above, in a Cardboard Box.

10 Boxes in a Case.

EXPORT.—10 Cases are securely packed in a strong crate for Export.

*Sold by all Sundry Houses or the Sole Importers—*

## ALABASTINE CO. (British) LIM.

CHURCH ST., SOUTH LAMBETH, LONDON, S.W.



## TUNBRIDGE & WRIGHT'S FLY CEMETERY.



The ORIGINAL and by far the  
BEST Sticky Fly Paper in the  
market.

Gives a Profit of 140 per cent.

**WE HAVE REDUCED  
THE PRICE TO 5/- PER  
GROSS NET CASH  
WITH ORDER AND  
CARRIAGE PAID.**

## TUNBRIDGE & WRIGHT'S CEMETERY FLY TAPE.

To meet the demand for a Fly Tape (which under  
some conditions is more convenient than a Fly Paper),  
we have produced the Cemetery Fly Tape, which is  
strongly made and most efficacious.

**6/6 per gross net cash with order,  
carriage paid.**

MANUFACTURERS;

## TUNBRIDGE & WRIGHT, READING.

London Depot: 12 LITTLE BRITAIN, E.C.

North of England Depot:

**4 GALLOWGATE, NEWCASTLE-ON-TYNE.**

Telegrams—"FLIES READING."

Telephone—496 READING.



**ON THE P.A.T.A. LIST.  
Guaranteed Profit—over 20 %.**

**DR. MACKENZIE'S**

## CATARRH CURE SMELLING BOTTLES



In Two Shapes—one the well-known shape and  
size the other small and flat for waistcoat  
pocket, &c.

Your kind co-operation in introducing the new  
shape, and pushing the old, is invited.

Effective, well got-up, well advertised, easy to  
sell, having largest sale of any Smelling Bottle  
in the World.

Packed in fancy cardboard cases—the Round  
Bottles in half-dozens, and the new-shaped  
Flat Bottles in One Dozens—and obtainable  
from all Wholesale Patent Medicine Ware-  
houses.

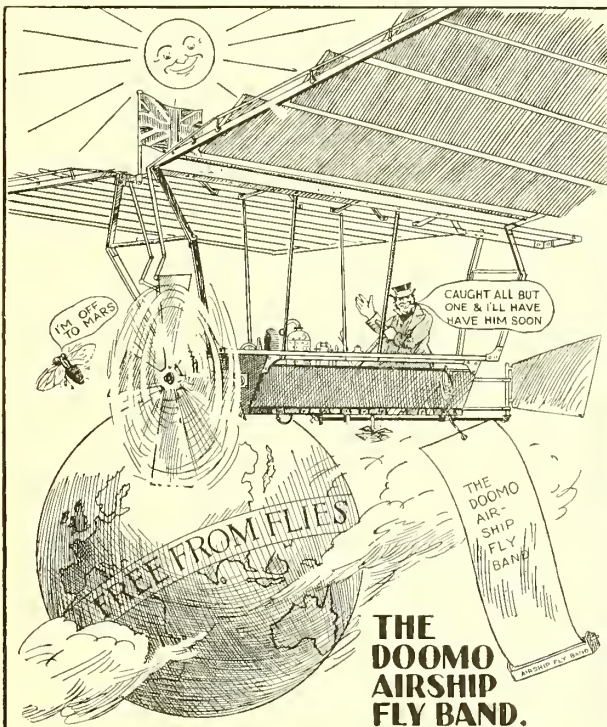
Handbills and Showcards will be sent, to any  
willing to use them, from



**MACKENZIE'S  
CURE DEPOT,  
READING.**

LONDON DEPOT—

12 Little Britain, Aldersgate St., E.



**THE  
DOOMO  
AIR-SHIP  
FLY BAND.**

A wide band sticky on both sides, unrolling like a window blind.  
Will catch ten times more flies than an ordinary tape.  
Being sticky on both sides, it has a catching surface equal to a fly paper.

6s. 6d. gross  
post paid on  
receipt of P.O.

**Jno. H. Smith & Co.,**  
Newark-on-Trent.

PROPRIETORS OF FLYDOOMO, DOOMOTAPE, &c.  
TELEGRAMS: "SMITH, CHEMIST, NEWARK"

**PROTECTION!**

**FREE TRADE!**

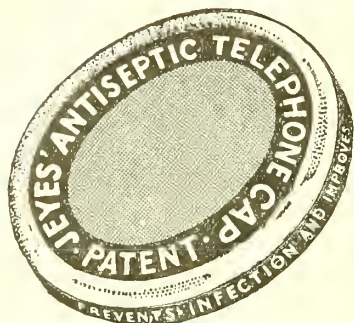
**BY USING  
"PENNY COBWEB" FLY PAPERS  
5/- PER GROSS.  
CARRIAGE PAID. CASH MUST ACCOMPANY ORDER. SAMPLES FREE.**

**CHRISTY STRONG, READING.**



# Every telephone subscriber needs Jeyes' Antiseptic Telephone Cap

*(Approved by the Postmaster-General.)*



The telephone mouthpiece is the favourite gathering place for germs of infectious disease such as Pulmonary Tuberculosis, Influenza, etc. This simple Antiseptic Cap, which is sanitised with Jeyes' Fluid, covers the mouthpiece and absolutely protects the user from infection. It can be attached in a second, and does not in any way impair the efficiency of the telephone.

The daily press has been active in calling public attention to the dangers of telephone infection, and every telephone subscriber who sees Jeyes' Antiseptic Telephone Cap on your counter will buy it.

It really sells itself—and makes a handsome profit for you.

One dozen on Card for counter display :

Trade price, 2/- per dozen.

Retail price, 3d. per cap.

Order to-day from

**Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon St., London, E.C.**

## BE READY for the FLIES.



When the season for Fly-catchers approaches, customers will ask you for a really efficient Fly-catcher.

You cannot do better than push "The Rapid."

It sells as quickly as it catches flies.

The tape is enclosed in tin cases, and the glue is guaranteed real Japanese.

**'RAPID' Fly Catchers**

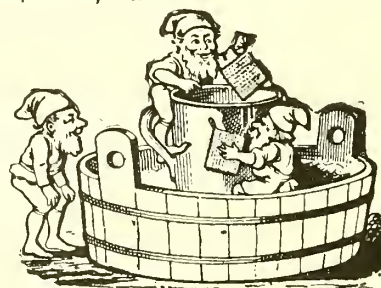
Never Dry. Always Ready.

## The New Scrubber

**INDISPENSABLE IN EVERY HOUSEHOLD.**

Indispensable in Chemical Laboratories, and most useful for cleaning Hands, for scouring and polishing Glass, Metals, Woodware, Kitchen Utensils, Gas Stoves, Sinks, &c.

Fitted on  
Showcards  
for  
Counter or  
Window  
Display.



Retails at: Copper **4d.** Steel **3d.**

With a good profit to the dealer.

Further particulars on application to the Sole Importers:

**H. LANGE'S SUCCESSORS,**  
21 Little Portland Street, LONDON, W.

ALSO FROM { W. B. FORDHAM & SONS, Ltd., 36-40 York Road, King's Cross, London, N.  
H. A. GOODALL & CO., Ltd., 5, 6, 7, Shoe Lane, London, E.C.  
BARCLAY & SONS, Ltd., 95 Farringdon Street, London, E.C.



# DANYSZ VIRUS

## KILLS RATS and MICE

**HARMLESS TO HUMAN BEINGS,  
DOMESTIC AND OTHER ANIMALS,  
BIRDS, &c.**

Has been issued for the last fifteen years under the superintendence of Dr. Danysz, Director of the Laboratory of Micro-Biology at the Pasteur Institute, Paris.

Dr. Danysz writes:—"My virus for rats and mice has, up to the present date, caused no accident, nor injury to the health of man, and my long experience enables me to say, and to affirm, that my microbe is not dangerous to human beings."

### THE ONLY VIRUS ON THE PROTECTED LIST.

Obtainable through all the Wholesale Houses.

Circulars, Handbills, Showcards, etc., on application to—

**Danysz Virus, Ltd.,** 52 LEADENHALL STREET, London, E.C.

# DAY, SON & HEWITT'S Animal Medicines.

A sure remedy for the Fret, Colic or Gripes, Influenza, Loss of Appetite in Horses. For Debility, Scour, or Diarrhoea in Horses, Cattle, and Sheep. Hoven or Blown Cattle and Sheep instantaneously relieved.



Price 1s. 9d. per bot.; 20s. per doz.



Price (Cows), 13s. per doz.; Ewes, 3s. 6d.

For all Feverish Disorders among Cattle, Sheep, and Pigs, and for Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking Feverish Symptoms in Cows and Ewes after Parturition.



Price 2s. 6d., 3s. 6d., and 7s. per bot.

For full particulars apply—

**ROYAL ANIMAL MEDICINE MANUFACTORY,**

**22 DORSET ST., LONDON, W.**

## INCREASE YOUR RETURNS

BY SELLING

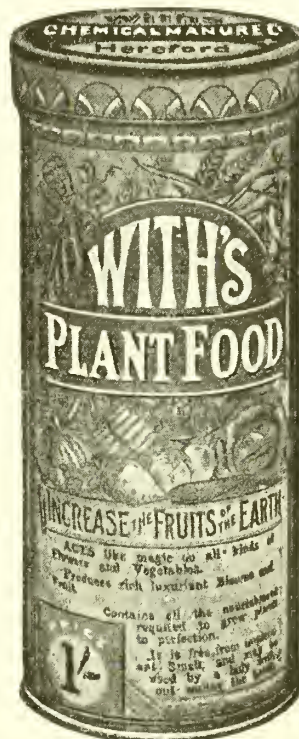
## WITH'S PLANT FOOD

The Finest Fertilizer in the World.

**SOLD IN TASTEFULLY  
— ENAMELLED TINS —**

**6d., 1/- & 2/6, Retail Prices.**

Attractive in any window or shop.



HALF FULL SIZE.

### AGENTS WANTED EVERYWHERE

### LIBERAL TRADE TERMS

of **33 1/3 %** on taking a small assorted case containing 2 doz.

**1/- and 2 doz. 6d. tins,**

with Showcards, Pamphlets and Handbills.

### ALL ORDERS CARRIAGE PAID.

Special Manures for all purposes. Pamphlets and Particulars Post Free.

Sole Manufacturers:

EST. 1875.

**WITH'S CHEMICAL MANURE Co.,**

**HEREFORD.**

# HARVEY'S HORSE REMEDIES



**P.A.T.A. PROTECTED PRICES.**

**HARVEY'S Aconite Powders,**

For Chronic Cough, Broken Wind, Roaring, &c.

**HARVEY'S Worm and Condition Powders.**

**HARVEY'S (Watts') Embrocation,**

or Curb Bottle.

**HARVEY'S (Watts') Red Lotion,**

For Wounds

**HARVEY'S Hair Restoring Ointment.**

**HARVEY'S Edos, or Tasteless Purging Powder.**

*These Remedies are used in most of the Training Stables, Stables of Masters of Hounds, and by many thousands of the Best Private Horse Owners in the United Kingdom and abroad.*

**Chemists are invited to write** for particulars of our Successful System of Local Advertising. Many Chemists with a connection among better-class Horse Owners are now adopting it, with gratifying results.

**GENEROUS PROFITS SECURED.**

For Trade Prices see the Lists of the Wholesale Houses, or write for Cash Price List to the Sole Proprietors,

**HARVEY & CO.**

(DUBLIN) LIM.

Wholesale Offices:

49 Lower Gardiner St.,

**DUBLIN.**

Telegraphic Address—

"REMEDIES DUBLIN."

## ARE YOU STOCKING THESE LINES?

**"ASPLINTO"  
Liniment**

**& "LA CORNIERE"  
Hoof Dressing.**

These well-known quick-selling lines have been placed on the P.A.T.A. List, and an extensive advertising campaign is now being carried on. The co-operation of the Chemist is solicited to secure the prompt filling of orders when enquiries are received.

All goods to be sold at face value with the exception of the 1/1½ size, which may be retailed at 1/1.

2/9	"Aspiinto" Horse Liniment	Per Doz. ... 24/-	1 1/1½	"Asplinto" Human Liniment	Per Doz. ... 9/6
4/6	"	"	2/6	"	"
7/6	"	"	5/-	Jars "La Corniere"	"
	"	"		"	"

**FOREIGN AGENTS WANTED.**

There is a ready and increasing demand for these popular remedies in all parts of the world. We invite correspondence from Foreign Agents willing to represent us.

Write TO-DAY for full particulars of Remunerative Agency.

**JOHN ASKHAM, 16 BROMPTON RD., LONDON, S.W.**  
(Opposite Tattersalls)



*"Poisons & Pharmacy Act, 1908."*

## LITTLE'S SHEEP DIPS.

Fluid, Paste, Powder and Cake.

LITTLE'S WEED DESTROYERS (Fluid & Powder)

**WANTED—CHEMISTS to act as AGENTS.**

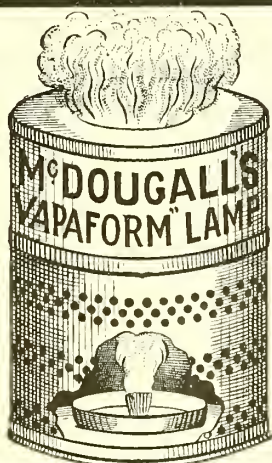
WELL ADVERTISED. :: READY SALE. :: PROTECTED PROFITS.

**Particulars—MORRIS LITTLE & SON, LTD., Doncaster.**



## McDOUGALL'S PATENT "VAPAFORM" LAMP

1/- 1/-

ON  
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T.  
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LIST

THE LATEST ADVANCE IN SCIENTIFIC DISINFECTION  
(by means of Formaldehyde)  
EACH LAMP FOR 1000 CUBIC FEET.

INVALUABLE FOR  
**DOCTORS**—To disinfect clothes after visiting infectious cases  
**SURGEONS**—To sterilize rooms before operations.  
**HOUSEHOLDERS**—To thoroughly disinfect their homes after infectious diseases, such as Influenza, Measles, Chicken Pox, Fevers, &c.

SOLD BY ALL CHEMISTS.  
Patentees—McDOUGALL BROS., Port St., Manchester.

## AS SUPPLIED TO H.M. THE KING. THE "HYGIENE" LAMP

(Patented at Home and Abroad.)

DISINFECTING

OR PERFUMING.

MOST  
ECONOMICALIN  
USE.

For purifying or perfuming the air in Public Halls, Private and Business Houses, Sick Rooms, &c., and for destroying Microbes, Germs, Insects and Parasites by means of Formaldehyde Vapour.

Favourably mentioned by the "Lancet" and the "British Medical Journal," awarded the Certificate of the Incorporated Institute of Hygiene, and recommended by leading London doctors.

### RETAIL PRICES.

Hygiene Lamps	5/6 each, 63/- dozen
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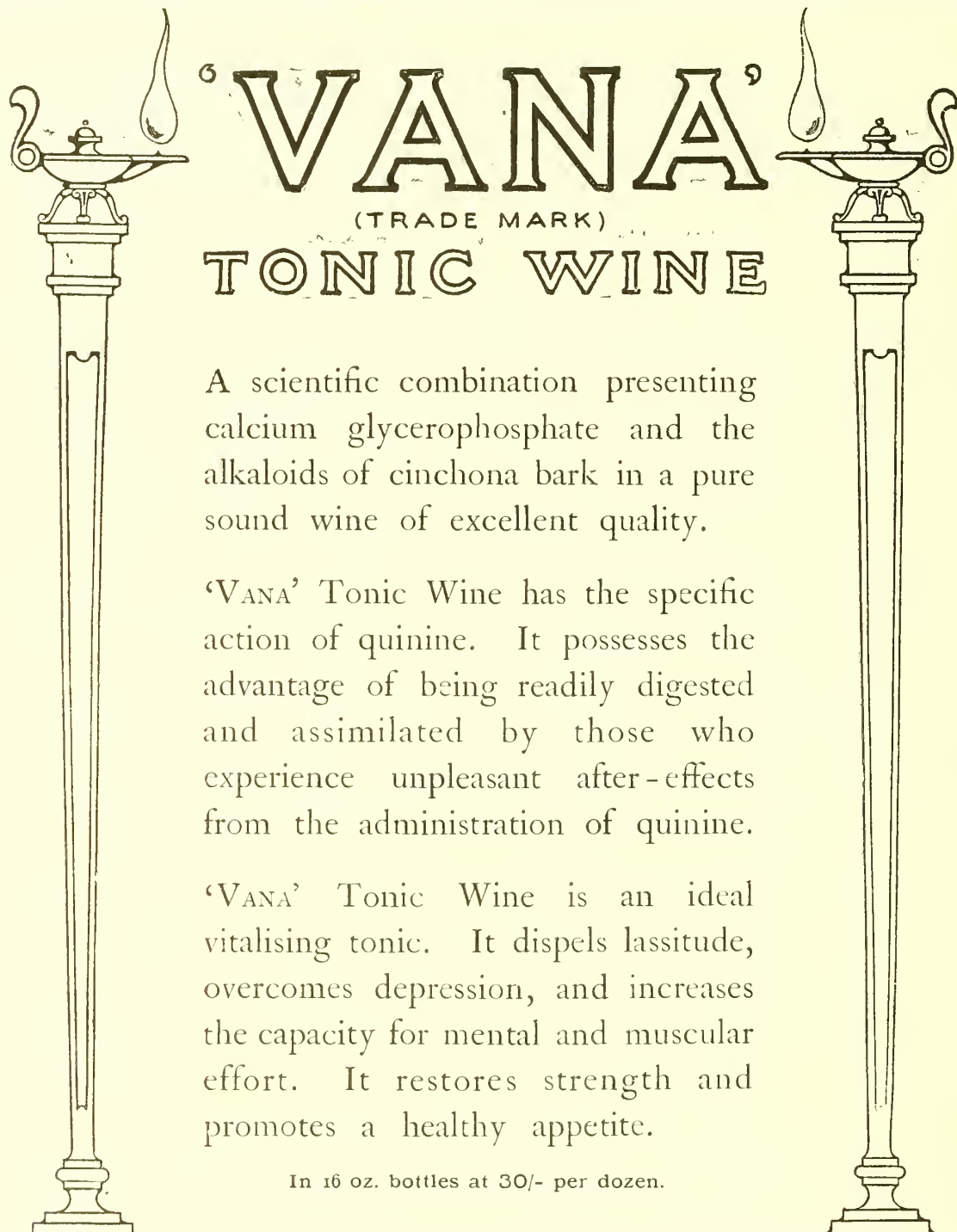
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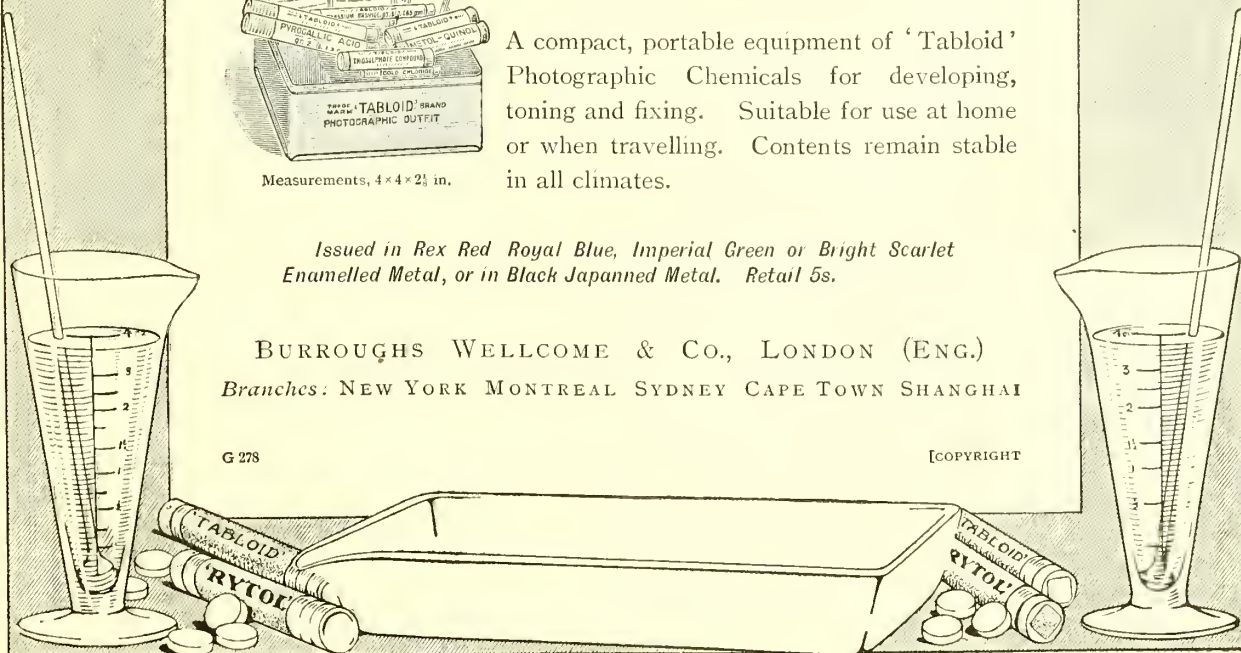
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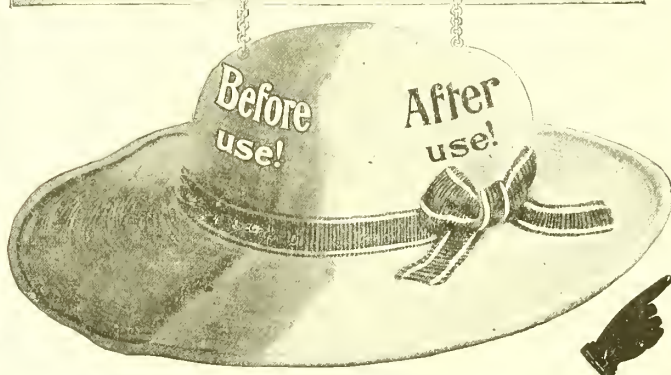
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### In the Coloured Supplement

### Customers are Waiting for You

in Canada, the West Indies, and the United States. See the letters from representative men on p. 623 *et seq.* THE CHEMIST AND DRUGGIST of May 22 will be the New World Issue, specially designed to help trade with these customers. Ask the Publisher for particulars.

## Summary.

These paragraphs refer solely to the more important articles and news.

SQUINT is the principal subject of the Optical Observations on p. 638.

THE Irish Pharmaceutical and Druggists' Examination results are given on p. 619.

THE AWARDS in the Colonial section of the *C. & D. Diary* competition are announced on p. 641.

COLONIAL CHEMISTS get a bit of good shooting now and then. See the "bags" on pp. 630 and 631.

THE last of the series of articles on skin-creams is devoted to those with a sodium stearate basis (p. 637).

A STATUE of the late Sir James H. Haslett, M.P., was unveiled in front of Belfast Town Hall on Monday (p. 620).

APPLICATIONS FOR LICENCES under Section 2 of the new Act are growing in number, and originate from even the largest cities. Our reports begin on p. 641.

A MEDICATED WINE, according to the Excise authorities, is one that is so much medicated that it ceases to be an alcoholic beverage. See the note on p. 636.

A PLAIN ANNOUNCEMENT of "teeth extracted" by a person who is not a registered dentist is not an infringement of the Dentists Act. See the case reported on p. 643.

OUR CORRESPONDENCE PAGES are exceptionally interesting this week. A glance at the contents columns will show what the subjects of letters to the Editor are (p. 657).

THE CORNER FOR STUDENTS TOURNAMENT PRIZEMEN are (1) Mr. J. Beattie, (2) Mr. S. Holliday, and (3) Mr. H. Brindle. The monthly prizes go to Mr. W. J. McGray and Mr. Brindle (p. 617).

THE TEXT of the so-called Anæsthetics Bill (Medical Acts Amendment Bill) is printed on p. 632. There is much opposition to it as it would limit seriously the use of nitrous oxide. We comment briefly upon it (p. 636).

IF A BANKER happen to give in a pass-book credit for more money than the depositor has put in, the banker is bound to honour a cheque for the amount. This is substantially what the Lord Chief Justice has decided (p. 643).

THE SCHEDULING of CARBOLIC ACID has resulted in more than a hundred thousand gallons of phenol-less carbolic disinfectants being sold in three years. The President of the Local Government Board says he has no power to stop it (p. 632).

TRADE RELATIONS between the Mother Country and other parts of the British Empire are the subject of a number of communications from the Presidents of Pharmaceutical Associations and Societies abroad, which are printed with portraits of Presidents in the section beginning on p. 623.

PYROGALLIC ACID and hydroquinone are substantially lower on the markets as the result of competition. China crude camphor, soda nitrate, castor oil, and turpentine are dearer. Cascara is firmer. Copaiba and ammonia sulphate are easier. Shellac lower at auction. An auction of first-hand drugs was held to-day (p. 653).

## Corner for Students.

CONDUCTED BY LEONARD DOBBIN, PH.D.

Students, please note. All communications should be addressed to the Editor of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

All communications and reports must bear the names and addresses of the writers, not necessarily for publication. The reports of those who ignore this rule are liable not to be dealt with.

### QUALITATIVE ANALYSIS FOR JUNIOR STUDENTS.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, marked "Students' Corner" on top left-hand corner) will be received up to Tuesday, April 27, and the samples will be posted on the following day.

Students' reports will be received up to Saturday, May 8. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In the list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

SPECIAL NOTICE.—The prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, *which fact must be attested on their reports*. Others may obtain specimens of the mixture of salts, and their reports will be separately adjudicated, but they will be regarded as *hors concours*. Correspondents who do not state that they are preparing for a qualifying examination will be included in the latter list.

### REPORTS.

The exercise placed before students on March 24 was of a different character from any of those which have been submitted recently. The intention was to distribute a compound of an altogether unfamiliar description upon which, in the first place, certain specified operations were to be performed. The observed results of these operations were to be carefully and minutely described, and the remainder of the substance was then to be examined with a view to ascertaining merely the elements of which it was composed—not the arrangement of these elements in metallic and acid radicals. It was not intended that the distinctly unusual behaviour of the substance under the prescribed treatment should afford much clue as to what the compound was or as to why it behaved as it did, and, doubtless, most of those who puzzled and pondered over some of the unfamiliar reactions will not be surprised to learn that the true nature of the substance was not ascertained by any of our correspondents, although several very good reports were sent in. We did not expect that anyone would determine what the compound was, and should, indeed, have regarded it as remarkable had anyone done so, and it was for this reason that we did not ask students to attempt this, but merely asked for reports on the particular points referred to above.

The blue powder of Exercise IV. consisted entirely of the sparingly soluble double cupric hydrazine sulphate,  $\text{CuSO}_4 \cdot (\text{N}_2\text{H}_4)_2 \cdot \text{SO}_4$ , which is obtained as an azure-blue granular crystalline precipitate on mixing solutions of cupric sulphate and hydrazine sulphate. Samples of the

powder were distributed to fifty-four students, and seventeen reports were sent in for examination.

Besides giving more or less detailed descriptions of the results of the three prescribed experiments to be carried out with the powder, all of our correspondents succeeded in establishing the presence in it of copper and of oxygen; one each failed in recognising the presence of hydrogen and of sulphur, while six failed to detect the presence of nitrogen.

The most striking reactions observed in dealing with the powder depended upon the powerfully reducing action of the hydrazine. Effects due to this reducing action were obtained not only in the prescribed experiments, but also on the application of a variety of tests in the systematic examination for metallic and non-metallic elements.

*Experiment 1.*—When the powder was heated in a dry test-tube, sulphurous anhydride and water were given off at a comparatively low temperature, nitrogen also being evolved during the heating. The residue consisted mainly of metallic copper.

*Experiment 2.*—When the powder was mixed with dilute solution of ammonia in the cold, decomposition took place with brisk evolution of nitrogen and the formation of a dark blue cupric solution. On boiling this blue solution it became almost colourless owing to the reduction of the cupric to a cuprous compound. In some cases a mirror of metallic copper was also deposited on the sides of the tube. When the colourless solution stood exposed to the air for some hours, oxidation of the cuprous solution took place with re-formation of a dark-blue cupric solution, which was not rendered colourless by renewed heating.

*Experiment 3.*—When the powder was mixed with solution of sodium hydroxide in the cold, decomposition also took place, with the evolution of nitrogen, and the formation, in this case, of a reddish-brown precipitate which consisted, mainly at least, of cuprous oxide. On boiling the colour of the precipitate darkened, owing to further reduction, and the whole of the copper present was deposited in the metallic state but in a spongy form.

In reporting on Experiments 2 and 3, it is noteworthy that a considerable proportion of our correspondents omitted to mention (sometimes in one case or other, but more frequently in both cases) the abundant evolution of small gas bubbles which was a striking feature of both experiments.

On heating the powder with solution of sodium hydroxide and with soda-lime, students described varying results as regards the evolution of ammonia, some reporting no ammonia and others reporting the evolution of sufficiently considerable traces to turn red litmus-paper at least slightly blue. Probably the different results were partly due to differences in the quantities and in the concentrations of the sodium-hydroxide solutions employed, and not solely to differences in the accuracy of observation. In any case, ammonia was evolved in easily recognisable quantity when the powder was treated with concentrated solution of sodium hydroxide, even in the cold.

Reducing effects of the hydrazine which made themselves apparent in the course of the systematic examination for the elements present are specially noteworthy in the cases of testing for phosphates by means of ammonium molybdate (blue solution of the product of the reduction of the molybdate), for oxalates by means of potassium permanganate (decolourisation of the permanganate), and for tartrate by means of silver nitrate and ammonia (rapid formation of a silver mirror). From their observations several students concluded, quite accurately, that a powerful but unfamiliar reducing agent was present.

The majority of our correspondents subjected the powder to the ordinary routine analysis for metallic and acid radicals, but did not make special tests to prove the presence or absence of the more commonly occurring non-metallic elements such as carbon, sulphur, nitrogen, etc. In view of the somewhat exceptional behaviour of the compound, it was particularly desirable that such special tests should be



applied, and the few who did apply them obtained valuable information from them.

#### PRIZES.

The first prize for the best report has been awarded to

WM. JOHN MCGRAY, 15 Exeter Street, Pallion, Sunderland.

The second prize has been awarded to

H. BRINDLE, 13 St. Helen's Road, Bolton.

**First Prize.**—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

**Second Prize.**—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

#### MARKS AWARDED FOR ANALYSES.

##### 1. Correspondents who are unqualified:

W. J. McGray (1st Prize)	89	Adac	78
H. Brindle (2nd Prize)	88	Nixus	78
Liddell	87	Hydroxide	77
Double Seidlitz	86	Kalium	74
Carnotier	86	Pharmacy	64
Rob Roy	82	Jelloid	60
Convolvulus	81		

##### 2. Correspondents who are qualified, or who have not indicated that they are unqualified:

Beaker	60	Capsicum	48
Boiling Point	85	Chemicus	74

#### TO CORRESPONDENTS.

W. J. MCGRAY.—Atmospheric oxygen was needed to restore the blue colour to the nearly colourless ammoniacal solution obtained in Experiment 2 of Exercise IV. A blue layer was first formed at the surface of the liquid and then extended downwards.

H. BRINDLE.—You report the evolution of a gas in Experiment 2, but not in Experiment 3, whereas it was observable in both cases. Chemical-apparatus dealers in all the large towns stock filter-papers which have been extracted with hydrofluoric and hydrochloric acids, and any such dealer, or a wholesale house, will procure them for you.

DOUBLE SEIDLITZ.—The powder contained, at most, only the merest trace of a chloride. The abundant silver-chloride precipitate which you obtained may have been due to chloride present, as impurity, in the sodium hydroxide which you used in preparing a solution to be tested for acid radicals.

CONVOLVULUS.—The evolution of ammonia on heating a substance with soda-lime is not in itself a convincing proof that the substance contains hydrogen, since the necessary hydrogen might be supplied entirely by the soda-lime. In this case you did not report the evolution of water-vapour when the powder was heated in a dry test-tube.

ADAC.—The blue colour you observed on testing for a phosphate with ammonium molybdate was due to the reduction of the latter by the hydrazine. It was the hydrazine also which decolorised permanganate. We cannot account for the gas which seemed to behave like carbonic anhydride, since the powder did not contain carbon. Many thanks for the reference you were good enough to send; your view regarding the statement coincides with our own.

NIXUS.—Your suspicion that the trace of calcium you found was due to the use of tap-water was almost certainly correct.

PHARMACY.—The white precipitate which you supposed to be zinc sulphide was really sulphur formed by the oxidation of hydrogen sulphide by sodium hypochlorite. The production of a silver mirror, which you attributed to the presence of a tartrate, was due to the hydrazine. We drew special attention last month to the fact that cupric hydroxide does not dissolve in excess of sodium hydroxide. By some inadvertence, you seem to have omitted to send the first page of your report.

JELLOID.—We are much obliged for your courtesy in sending the reference to the statement about the necessity of using sodium hydroxide which is free from carbonate. The trace of arsenium you detected may have been present, as impurity, in the zinc or the hydrochloric acid you used for Marsh's test.

BEAKER.—Your report is exceedingly slender throughout, and it does not appear from it that you made any systematic examination either for metallic or acid radicals.

BOILING POINT.—We are at a loss to explain the white precipitate which you obtained in the systematic testing for metals

on adding ammonium chloride and ammonia and found to dissolve in excess of the latter reagent. See also the reply to "Nixus."

CAPSICUM.—The pungent odour observable when the powder was heated was that of sulphurous anhydride. Had you applied a test for "sulphur in any form" it is scarcely likely that you could have failed to detect this element. We regret that your total of 443 for the five exercises of the Winter tournament, to date, was omitted, by mistake, from the list last month.

#### THE WINTER TOURNAMENT.

At the beginning of the Winter Session we offered a *First Prize* of books value 2l. 2s. and a certificate to the competitor who obtained the highest aggregate marks for the six analytical, etc., exercises during the six months November 1908 to April 1909; a *Second Prize* of books value 1l. 1s. and a certificate to the competitor who obtained the second highest aggregate; and a *Third Prize* of books value 10s. 6d. and a certificate to the competitor who obtained the third highest aggregate. The Tournament closed with the exercise just reported upon, and we are now able to give a summary of the results and to announce the names of the prize-winners. Eighty-seven students in all took part in the competition during the six months, and, as usual, a large amount of good and persevering work was carried out by many of them, some of the reports sent in being carefully drawn-up accounts of well-executed analyses. The average scores attained by the prize-winners are almost identical with those of last year's prize-winners, and are very satisfactory, as the following statement of the first ten shows:

1. Double Seidlitz	561	6. Pharmacy	512
2. Boiling Point	538	7. Chemicus	509
3. Validol	528	8. Adac	501
4. Carnotier	526	9. Capsicum	491
5. Jelloid	519	10. Nixus	482

We have to congratulate the students named below on the successful results of their sustained efforts during the winter.

The first place in the Tournament has been taken by "Double Seidlitz" (Mr. James Beattie, c/o W. M. Alexander, 33 Square, Kelso) with an aggregate of 561 marks, made up, without a single serious slip, of 97, 98, 93, 99, 88, and 86, and to him the first prize and a certificate have been awarded.

The second place and prize have been taken by "Boiling Point" (Mr. S. Holliday, 44 Worthing Road, Lowestoft) with an aggregate of 538, made up, with only one serious slip, of 96, 95, 83, 93, 86, and 85.

The third place and prize have been taken by "Validol" (Mr. H. Brindle, 13 St. Helen's Road, Bolton), who has been forging ahead in the later competitions of the tournament and ends with the very creditable aggregate of 528, made up of 85, 77, 96, 96, 86, and 88.

We shall be pleased to hear from these prize-winners as to the books which they desire as prizes.

## Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D. Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the sub-joined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

11/38. Makers of reels for fly-catchers (without gum).

18/21. Where can anastofom and biaseptule be obtained?

22/51. Makers of "Quassia Chewing Gum," a preventive for smoking.

17/62. Where can lactic acid ferment in powder be obtained in quantity?

21/48. Makers of a concentrated fluid preparation of sloes, for making sloe-gin.

20/24. Makers of, or wholesale agents for, Dentura tooth-brushes for cleaning artificial teeth.

## English News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

### Brevities.

"Chemist," "herbalist," "pharmacist"—one after the other on the glass door of a West-end "M.P.S." is the latest arrangement.

At Lancaster on April 15, John Bottomley, described as a chemist's assistant, was fined 20s., and costs, for using obscene language to his wife.

Mr. S. G. Bartlett, pharmacist, has effected considerable alterations and improvements to his pharmacy at 4 Jewry Street, Winchester.

At York on April 19, Charles Brassey was fined 1s. and costs for damaging the shop-front of Mr. Edward B. Kendall, pharmaceutical chemist, 6 Coney Street, by striking matches thereon.

Mr. David Howard presided at the second annual meeting of the Secret Commissions and Bribery Prevention League, Incorporated, held at the London Chamber of Commerce on April 19, when Sir Edward Fry was re-elected President.

At Croydon on April 20, Frank P. Corbutt, who was stated to be a chemist, was sentenced to six weeks' imprisonment in the second division for stealing books from the Thornton Heath Library (*C. & D.*, April 10, p. 548).

At the West Riding Police Court, Sheffield, on April 17, John Edward Goodall, a chemist managing the drug-department of the Stocksbridge Co-operative Society, was sent to the Assizes for trial on a charge of falsification of check-books. Bail was accepted in two sums of 20*l.* each.

The Home Secretary has issued an Order, dated April 2, 1909, under the Coal Mines Regulation Act, altering the regulations under which amasite, dominite, and St. Helen's powder may be used in coal-mines. The new Order is sold by Wyman & Sons, Ltd., Fetter Lane, London, E.C., price 1*d.*

While some cattle were being driven through Garstang, near Preston, on April 15, a Shorthorn bull suddenly left the ranks and rushed through the glass-panelled door of Mr. Joseph Thomas's pharmacy in Market Street. The door was demolished and drugs were scattered around before the animal was ejected.

According to the report of the Blackburn Medical Officer (Dr. Greenwood), the following quantities of disinfectants were used in the town during 1908: Chlorox, 1,190 gals.; Izal, 60 gals.; chloride of lime, 3 tons 11 cwt.; sanitary dry lime, 7,360 bags (7-lb.); carbolic powder, 140 gross dredgers (1-lb.), at a total cost of 338*l.* 8s. 11*d.*

At Sheffield Quarter Sessions on April 19, Wilmot West (25), out-porter, and Wm. Riley (22), grinder, who pleaded guilty to breaking and entering the premises of Mr. G. T. W. Newsholme and two other tradesmen (*C. & D.*, March 20, p. 446), were bound over to be of good behaviour for two years. Samuel Barkwith (23), labourer, was acquitted of the charge of receiving twenty threepenny-bits from Mr. Newsholme's pharmacy.

### Galen Lodge.

The annual meeting of this masonic lodge was held at Freemason's Hall on Monday evening, when Mr. Westlake, of the Brompton Hospital, was installed as Worshipful Master, Mr. Arrow, jun., officiating. Mr. F. Bascombe acted as director of ceremonies, and amongst those present were Mr. Gradidge, S.W.; Mr. G. E. Pearson, F.C.S., J.W.; Mr. Peters (of Jeyes), P.W.M.; and Mr. J. H. Harrington. After the ceremony the company dined together in the Phoenix Room of the Holborn Restaurant, the new master presiding, and in the course of the evening the past master (Mr. Peters) was presented with a jewel.

### Institute of Chemistry.

Ten candidates presented themselves for the Intermediate examination in April, of whom the following six passed: Messrs. B. M. Brown, A. S. Dodd, T. S. Haines, G. S. W. Marlow, G. A. Smiley, B.Sc., and O. J. Stone. For the

Final Associateship examination Mr. P. W. Copeland, B.Sc., passed in mineral chemistry, and Mr. H. T. Reeve in metallurgical chemistry. In organic chemistry five entered, and three passed: Messrs. C. Gilling, Ph.C., B.Sc., G. E. Johnson, B.Sc., and J. Yates, M.Sc., B.Sc. In chemistry of food and drugs, etc., out of six candidates, four passed—viz., Messrs. T. Cockburn, C. E. C. Ferrey, P. A. W. Self, Ph.C., B.Sc., and F. F. Shelley. Messrs. J. Yates, T. Cockburn, and F. F. Shelley were examined for the Fellowship.

### Analysts' Affairs.

Mr. Cyril Dickinson, B.Sc., F.I.C., has been appointed as temporary analyst by the Southwark Borough Council, pending the appointment of a successor to Dr. Scott Tebb.

The Stoke Newington analyst has examined one sample of compound liquorice powder during the past month. The sample complied with the pharmacopœial requirements.

### Leicester Pharmacy Athletic Club.

The above club has issued its list of cricket fixtures for the coming season. Commencing with a practice match, Captain's team v. Vice-Captain's on April 29, there follow twenty-two matches (home and away). These include fixtures with Nottingham Chemists, the Sheffield Chemists, and a match on Whit Monday between a team of the combined clubs of Leicester and Nottingham Chemists and the British Drug Houses C.C. in London. The matches generally take place on Thursday afternoons.

### Wine-licences.

The grants of medicated-wine licences have been confirmed by the local Licensing Justices in the following instances:

Mr. John Freeman, chemist and druggist, 9 North Street, Barking.

Mr. Ernest H. Slater, chemist and druggist, High Street, Epping.

The wine-licence attached to the business carried on at 14 The Broadway, Cardiff, by Mr. Richard Prust, chemist and druggist, has been transferred to Mr. Harold H. Prosser, chemist and druggist, Penarth.

At the Hants County Licensing Sessions at Winchester on April 14, Mr. Wm. Ernest Kirkman, New Milton, Hants, applied for the confirmation of a medicated-wine licence granted by the Lymington Justices. The applicant's solicitor said he believed medicated wines were made-up preparations, such as Wincarnis, Hall's coca-wine, and Vibrona, which were ordered by the doctor. The licence was a six days' one, and he did not ask to be allowed to sell so-called invalid port or sherry. The Court granted the application, and also a similar application for a seven days' licence by Mr. F. Woollings, chemist, High Street, Sandown, I.W.

The wine-licence granted to Messrs. Graham & Son, Grand Parade, Westbourne, was confirmed by the Bournemouth Magistrates, on April 16, on the terms on which it was originally granted—subject to an undertaking that no medicated wine should be sold except on the written order of a medical man. Mr. Sherrin, in applying, asked that this restriction, which he classed as most unfair to his clients, be removed. Medicated-wine licences had never been refused, nor had any such restriction been previously imposed in Bournemouth. This procedure made the licence valueless, since although doctors wrote their prescriptions they gave other instructions verbally. The Bench, after a lengthy consultation, decided as above.

### Manchester Notes.

Mr. Hermann Woolley has been appointed one of the special committee for election of honorary medical officers at the infirmary.

Recently Mr. T. E. Harvey, M.A., Warden of Toynbee Hall, gave an address at the Friends' meeting-house, Mount Street. Mr. Harvey is a son of the late T. Harvey, of Harvey & Reynolds, Leeds (now Reynolds & Branson, Ltd.).

Professor W. H. Perkin has written to the papers warning the public against the many imitations of "Non-flam" flannelette, which are short-nap flannelettes filled



with soluble salts, which cause them to show some resistance to fire before washing but are readily inflammable afterwards, whereas "Nonflam," even after thirty or more washings, retains in a remarkable measure its reluctance to ignite. This is apparently due to the fact that the salts employed "mineralise" the cloth, penetrating the fibre and combining with it. Sodium tungstate, says a correspondent, is the principal salt used for this purpose with salts of tin, zinc, aluminium, and titanium. Other methods consist in using ammonium salts which give off fumes on ignition and these extinguish the fire, or salts like borax are used which fuse on ignition and leave a vitreous coating which retards or even may prevent combustion. The salts used in the mineralising process neither fuse nor give off fumes.

#### Midland Notes.

Mr. C. S. Birt, pharmacist, Selly Oak, has a good photograph of the village oak in the "Birmingham Weekly Post," which secured a consolation prize in the competition.

Mr. Wm. Arnold, a local magistrate, who died at Tamworth last week, is a direct descendant of Thomas Guy, the founder of Guy's Hospital, and formerly a member of Parliament for the district.

#### A "Wonderful" Tonic.

At the Bow Street Police Court on April 17, P. Clark, P. E. Norgate, and E. Green appeared on a charge of conspiracy and of obtaining 312*l.* by false pretences from Mr. J. T. Higgins, a moneylender. Mr. A. H. Bodkin, on behalf of the Director of Public Prosecutions, said a man named Harcourt, now a convict, failed to pass the doctor representing a life insurance company. Clark spoke to Norgate of a "wonderful prescription" prescribed by his doctor, and Clark went with Harcourt to this physician and obtained a prescription for him. Mr. Bodkin stated that the prescription could now be seen in a West-end chemist's books. It was a wonderful tonic because Harcourt, who had been rejected by one doctor, easily satisfied the medical man who examined him on behalf of another insurance office after he had been stiffened and strengthened by this extraordinary tonic. On the security of the policy thus procured further sums were obtained from Mr. Higgins.

#### A Cough-mixture Suspected.

An inquest was held at Canterbury on April 8 relative to the death of Annie E. Fairbrass (54), of Canterbury. Frances E. Drury, domestic servant, deposed that she had given deceased "Reeve's 'Miraculous' Cough-cure" regularly for the last four years. On the Friday previous to the day of her death (Monday) she had purchased a bottle of the mixture, and witness only gave her one dose, but deceased must have drunk the rest, for although she had none of the medicine on the Sunday there were only two doses left. In answer to the Coroner, she stated that deceased had more of the cough-mixture than whisky during that period. Deceased took four bottles of the mixture each week, but some were 2*s.* 9*d.* size bottles and others 1*s.* 1½*d.* Mr. B. F. H. Maudson, chemist and druggist, 34 St. Peter's Street, Canterbury, said he had supplied deceased with cough-mixture, but did not prescribe it for her. A bottle of the mixture contained 2½ grains of morphine, but the medicine was harmless if taken in proper doses. He thought other persons than those present at the inquest had fetched the mixture for the deceased, and he would not have supplied it in such quantities if he had known it was for one person. Dr. A. B. R. Sworn, in reply to a question by the jury, said that the condition of the liver could only be due to alcoholism, and the jury returned a verdict of death from failure of the heart's action following alcoholism.

#### Coroner on Old Prescriptions.

At Kensington on April 20, Mr. Ingleby Oddie conducted an inquiry into the death of Aubrey Newton, journalist, who was found lying dead on the floor of his bedroom at the Golden Bells Restaurant, Notting Hill Gate, London, W. Dr. Chippingdale deposed that death was due to morphine-poisoning, and that there were marks on the body indicating frequent use of a hypodermic syringe. Deceased had also tried to sever an artery with a pair of scissors. It appeared that chloral hydrate had been prescribed for the deceased. Coroner: How would a man like that get hold of a hypodermic syringe?—Witness: He could

buy one at any chemist's. Mr. Charles W. Brumwell, pharmaceutical chemist, 72 Euston Square, London, stated that he had supplied the deceased with 3 grains of morphine dissolved in 2 dr. of water. Witness produced his prescription book with a record of the sale. He advised the deceased to be careful. The prescription appeared to be a well-worn one. He did not secure the deceased's signature; it was not required by law. He admitted that there was no address on the top of the prescription, and the initials of the person signing it were indecipherable, but he had acted according to the law. The Coroner said the witness depended on his reading of the law, but he pointed out that it was common law that sense must be brought to bear in any dealing, and if that was neglected it amounted to negligence. He did not think there was much common-sense in a chemist supplying a deadly poison to a stranger simply on handing in a prescription on a dirty and worn piece of paper, without the doctor's address, and without being able to decipher the signature. Under such circumstances he might have used a little judgment and asked the man who the doctor was. The law was framed with the object of preventing people like this obtaining poison to take their own lives. The jury returned a verdict of suicide when of unsound mind.

#### Business Items.

Mr. Graham, pharmaceutical chemist, has opened a pharmacy at Dolphins Barn Street, Dublin.

Messrs. Haydock, Ltd., have relinquished the drug-business which they have carried on at South Circular Road, Dublin.

Mr. F. Anderson, pharmaceutical chemist, is opening a pharmacy at the corner of Harcourt Street and Harcourt Road, Dublin.

The civil servants of Dublin have formed themselves into a Provident Guild, and have appointed official pharmacists. These are Messrs. Oliphants, Drumcondra, Mr. Colles, Phibsborough, Messrs. Hayes, Conyngham & Robinson, Ltd., and Messrs. Graham & Co., Dublin. The discounts to be allowed to members range from 2*d.* in the shilling to 33½ per cent.

## Irish News.

#### Pharmaceutical Society of Ireland.

The following have passed at the recent examinations: *Pharmaceutical Licence*.—Thomas Joseph O'Connor, Kanturk; Thomas Cecil Scott, Ranelagh, co. Dublin; John Vickery Bateman, Clonakilty; Patrick John Fleming, New Ross; Michael John Foley, Dublin; William John Stevenson, Belfast; Denis Joseph Chadwick, Borrisoleigh. Twenty-one candidates were rejected.

*Registered Druggist*.—William James Balmer, Belfast; Michael Leahy, Kilmallock; Richard Ouseley Smythe, Castleblayney. Seven candidates were rejected.

*Pharmaceutical Assistant*.—The following have passed: George Hutton, Francis Edwin Preston, William Robinson (John Murphy, Philip Ryan), John Anthony Burke.

#### Personal.

As the results of the class examinations just held at Queen's University, Belfast, Mr. S. E. A. Acheson, chemist and druggist, has taken prizes in surgery, sanitary science, midwifery, gynaecology, and diseases of children.

Mr. Samuel Gibson, J.P., registered druggist, Belfast, exhibited several pedigree Dexter cattle at the Spring Show of the Royal Dublin Society. The cattle were reared on his farm at Summer Hill, Dunmurray, co. Antrim.

Mr. John Reid, registered druggist, Dungannon, who recently obtained the Haslett memorial gold medal for the highest marks at the 1908 examinations, is commencing business on his own account at Scotch Street, Dungannon.

Mr. W. F. Wells, pharmaceutical chemist, has been elected a member of the Select Vestry of the parish of Baggot Rath, Dublin. Mr. C. B. Vance, pharmaceutical chemist, Greystones, has been elected to a similar position in his parish church. Mr. C. E. Digges, proprietor of the Sandford Medical Hall, Dublin, for Sandford parish. Sir Thomas W. Robinson of the Mariners' Church, Kingstown. Mr. J. Tyrie Turner, pharmaceutical chemist, Carrick-on-Suir, was on April 14 elected churchwarden of the parish church.

**Fire.**

A disastrous fire which broke out in the bonded whisky stores of Messrs. McConnell, Belfast, involved the destruction of the premises of Messrs. John Clarke & Co., wholesale druggists, Corporation Street, Belfast. The reports describe the "constant cannonading as the various chemicals caught the flames" and the "weird unearthly scene" which followed each explosion. It was soon realised that it was impossible to save the building, and in a comparatively short space of time nothing but the outer walls was left standing. The books were saved, but the stock was entirely destroyed. The damage done to Messrs. Clarke's premises is estimated at 20,000*l*. Messrs. John Clarke & Co. have issued a notice that their business will be carried on at their warehouses in Laganview Street.

**The Haslett Statue.**

The unveiling ceremony in connection with the memorial to Sir James Haslett, M.P., took place on April 19 in the City Hall grounds, Belfast. The memorial, which takes the form of a marble statue, harmonising with that of Sir



Edward Harland, occupies a commanding position in front of the City Hall. For over forty years Sir James Haslett was a faithful servant of the public in the City Council, and subsequently in the wider realm of the Imperial Parliament, and he left behind him a record of public usefulness which will not be equalled for many a day. It is four years since Sir James died, and Monday's ceremony was the outcome of a spontaneous desire to honour his memory. At a public meeting ten days after his death it was resolved to open a subscription fund towards the erection of a statue. In a short space of time 1,500*l*. was promised towards the memorial, the execution of which was entrusted to Mr. F. W. Pomeroy, A.R.A.

For the convenience of those present at the ceremony temporary platforms were erected, and when the Marquis of Londonderry, K.G., who performed the unveiling, arrived every seat was occupied, the company comprising the Lord Mayor (Alderman Sir Robert Anderson, J.P.), the majority of the Corporation, and various members of the Haslett family, including the sons of the late Sir James (Messrs. James R. Haslett and Horace R. Haslett). The Chemists' and Druggists' Society of Ireland was represented by Mr. W. Jamison, Mr. S. Gibson, J.P., Mr. S. Suffern, Mr. W. J. Rankin, Mr. Jas. Guiler, and others. Prior to unveiling the memorial the Marquis of Londonderry, K.G., delivered a speech eulogistic of the services of Sir James Haslett to the city, and the statue having been uncovered, Sir Robert McConnell, on behalf of the subscribers, formally presented it to the city. The Lord Mayor accepted the gift on behalf of the Corporation and the citizens. The photograph given above was taken during the proceedings by Mr. A. R. Hogg, registered druggist, Trinity Street, Belfast, who is a well-known photographic expert in the North of Ireland.

**Guardians' Doings.**

The Mohill Guardians have been informed that the L.G.B. cannot sanction the acceptance of the tender of Mr. A. Burns for drugs. The Guardians are writing again to the superior Board.

The Wexford Guardians are in a difficulty about the surgical-instruments contract, which the L.G.B. will not allow Mr. White to accept. The Guardians hold that Mr. White, having entered into the contract, is bound to carry it out.

The Sligo Guardians have been asked by the L.G.B. why they gave the drug contract to Mr. H. Boyers when other more advantageous tenders were sent in. Local preference is the reason the Guardians give. Mr. Boyers has also offered to allow the higher discount offered by the lowest tender.

The Ballymahon Guardians have been informed by the L.G.B. that they cannot sanction the award of the contract to Mr. White for surgical appliances, as he has already a large number of contracts. The L.G.B. suggest that the contract be given to Messrs. Sumner & Co., Liverpool, but the Guardians want to retain Mr. White.

Mr. P. N. White, Sligo, has written to the Cavan, Tuam, and Carrickmacross Boards of Guardians declining the contracts for surgical instruments which had been apportioned to him, on the ground that the L.G.B. are not desirous that he should hold so many contracts. The Tuam Guardians declined to allow Mr. White to withdraw his tender. At Cavan the tender of John Clarke & Co. was accepted at a discount of 38½ per cent. In the case of Carrickmacross Union the Guardians gave the contract to Mr. O'Connor, Newry.

**Scots News.****Aberdeen and the North.**

Mr. R. Sturrock, chemist and druggist, Aberdeen, has taken the degree of M.B. Ch.B. at Aberdeen University.

Mr. A. M. Lee, chemist and druggist, has been nominated as a candidate for the Strichen School Board.

Mr. Douglas W. Berry, son of Mr. A. W. Berry, chemist, Rosemount Viaduct, has passed the Aberdeen University Medical Preliminary examination.

At the half-yearly Licensing Court held at Maud on April 20, Mr. Alexander Milne, chemist and druggist, Maud, was refused a grocer's licence.

Mr. Herbert Milne, son of Mr. John Milne, chemist, Fetterangus, was one of the most successful students at the recent examinations at Aberdeen University. He took the degree of M.A. with First-class Honours in Classics and the following prizes: The Simpson Greek Prize (65*l*.), the Seafield Gold Medal in Latin, and the Jenkyns Prize.

**Personal.**

Mr. John Eunson, chemist and druggist, has been elected a member of the Biggar Parish School Board.

Mr. A. Bennett McLean, chemist and druggist, headed the record poll by over a hundred votes at the Kilmacolm School Board election.

Mr. W. B. Rawlinson, formerly of Hawick, and latterly in the Transvaal, has gone out to Queensland and purchased the business of the late Mr. J. R. Raymond, at Esk.

**Edinburgh Athletics.**

The spring competition of the Edinburgh Chemists' Golf Club was held over Gullam Old Course on Monday, April 19. Results:

1st (Captain's Prize), A. C. Baxter, 97 less 12=85.

2nd, G. W. Mangan, 95 less 9=86.

3rd, a tie, Geo. Robertson, 96 less 7=89, and D. S. Philp,

83 plus 6=89.

The tie was won by D. S. Philp on the play-off. A consolation prize, presented by W. W. Ainslie, Esq., North Berwick, was won by H. Bristowe Case. A sweepstake was held in the afternoon, the result of which was: First, James Stott; second, Wm. Gibb; third, W. C. Weir; and fourth, G. W. Mangan.

The Football Section of the Edinburgh Pharmacy Athletic Club are to meet Glasgow chemists in a friendly game on Saturday, April 24, at the Maryhill Football Club's ground.



## Tooth Powders and Pastes.

By a Dental-Practitioner.

MANY persons may use mouth-washes, but the majority have some particular tooth powder or paste which suits their own taste or fancy. Precipitated chalk enters largely into the composition of all tooth-powders, and to this is added various ingredients useful for cleaning the teeth, and others to give an agreeable and pleasant taste to the mouth. A great number of tooth-powders contain substances, such as pumice and cuttlefish-bone, which, owing to their gritty nature, do a greater amount of harm than good. No doubt they make the teeth clean and white, but it is at the expense of the enamel, which is gradually worn away by friction. Obviously, therefore, a difference exists between a substance of a gritty nature (injurious to the teeth) and one of a feebly abrasive nature which is necessary for thorough cleansing. Precipitated chalk is an excellent example. It is entirely free from grittiness and yet has a very slight abrasive action. It is also antacid and a mild astringent. The following recipes may be found useful, and most of them afford excellent tooth-powders:

### Camphorated Tooth-powder.

Cretæ præcipitat. ...	3xvj.
Magnes. carb. ...	3j.
Pulv. camphor. ...	3iss.

M.

### Carbolated Tooth-powder.

Acid. carbol. pur. ...	3iss.
Magnes. carb. levis. ...	3iiss.
Pulv. iridis flor. ...	3iiss.
Cretæ præcip. ...	3XLV.
Pulv. sacch. pur. ...	3xv.
Terræ rosæ ...	3ij.
Ol. bergamot. ...	3iij.

Mix the acid intimately with the orris-powder and add the other ingredients.

### Camphor-and-Myrrh Dentifrice.

Pulv. camphor. ...	3ij.
Pulv. iridis flor. ...	3iv.
Pulv. myrrhæ, ...	
Pulv. krameriaë ...	aa 3ij.
Sodii biborat. ...	3j.
Cretæ præcip. ...	3viiij.
Ol. rosæ ...	3ix.
Ol. bergamot. ...	3v.
Ol. cinnam. ver. ...	3ix.

M.

### Quinine Dentifrice.

Quininaë sulphat. ...	3j.
Cretæ præcip. ...	3iij.
Cretæ rub. ...	3ij.
Pulv. myrrhæ ...	3ij.
Pulv. iridis flor. ...	3j.

M.

### Charcoal Tooth-powder.

Pulv. carb. lig. ...	3ij.
Pulv. rad. iridis, ...	
Pulv. catechu ...	aa 3j.

M.

### Simple, but Useful.

Magnes. carb. pond. ...	3xx.
Cretæ præcip. ...	3iv.
Pulv. rad. iridis ...	3j.
Ol. rosæ ...	3xxxv.

M.

### Tooth-pastes.

1.

Pulv. cretæ præcip. ...	3iv.
Pulv. rad. iridis ...	3j.
Pulv. alum. excis., ...	
Cocci cacti ...	3ij.
Mel. rosarum ...	3v.
Ol. bergamot. ...	3xxv.
Ol. caryoh. ...	3xxx.
Ol. rosæ ...	3v.

2.

Pulv. iridis flor. ...	3ij.
Pulv. saponis ...	3ij.
Pulv. tragacanth. ...	gr. XXXVj.
Cretæ præcip. ...	3iv.
Ol. menth. pip. ...	3xxv.
Ol. gaultheiæ ...	3xx.

### Misce et adde—

Carmini ...	3ss.
Liq. potassæ ...	3ss.
Glycerini ...	q.s.

Put about 5j. of glycerin in a mortar, then add the carmine in fine powder. Next add the liq. potassæ and more glycerin, triturating all the time; lastly add the above powders thoroughly mixed.

## Inter-collegiate Pharmacy Football Champions.

THIS is the football eleven of the South of England School of Pharmacy which this season has won the silver cup presented by the late Mr. W. Watson-Will, Ph.C., F.C.S., for competition amongst pupils of the schools of pharmacy in London. It is an interesting circumstance that Mr. Watson-Will's former senior-assistant, Mr. H. Lucas. Ph.C., F.C.S., is principal of the school which provides this year's champion team. The names (reading from left to right) are: Top row, R. A. Cottman, R. S. Ellis, G. W. O. Williams, and J. Buckley; middle, T. B. Fox, T. W. Attenborough (hon. secretary), J. S. White (captain), C. D. Frearson (vice-captain), B. G. Woodrow; bottom, M. G. Dowson, H. C. Davies.



**DRUGS AND CHEMICALS IN TURKEY.**—The chief demand in respect of drugs in Turkey is for quinine, but owing to the marked diminution of fever among the peasants the consumption is only one-fifth of what it was six years ago. About 80 per cent. of the imports are derived from Italy and the remainder from France. British chemicals imported into Turkey are chiefly represented by bicarbonate of soda, sal ammoniac, sulphate of copper, alum, and sulphate of iron.

**CHEMICALS IN MEXICO.**—The imports of chemicals into Mexico during the fiscal year 1907-8 amounted in value to 1,034,905 $\frac{1}{2}$ l., as compared with 941,300 $\frac{1}{2}$ l. in 1906-7.

**MEXICAN VANILLA.**—The exports during the fiscal year 1907-8 amounted to 108 tons, valued at 190,706 $\frac{1}{2}$ l., against 164 tons (266,220 $\frac{1}{2}$ l.) in 1906-7, 225 tons (415,739 $\frac{1}{2}$ l.) in 1905-6, 121 tons (228,567 $\frac{1}{2}$ l.) in 1904-5, and 98 tons (267,048 $\frac{1}{2}$ l.) in 1903-4. [Ton=1,000 kilos.]



## Colonial Exhibitions.

"AGRI-HORTICULTURAL" is a word much used in the Eastern parts of the British Empire, which is well wanted now at home in connection with agricultural and horticultural poisons. Agri-horticultural shows are common in the East. We recently received from the Federal Dispensary, Ltd., of Kuala Lumpur, Selangor, F.M.S., photographs of an exhibit which they had made at the last local show. Mr. F. V. Guy, the manager of



EXHIBIT A.

Rubber from the chemists' point of view, comprising rubber goods generally stocked and sold by chemists.

the company, tells us that the company had four distinct exhibits—(a) rubber, from a chemist's point of view; (b) Natura milk; (c) drugs, chemicals, and galenicals; and (d) guns, cameras, cigars, etc. The stand was a four-sided pyramid, and each face was draped to show

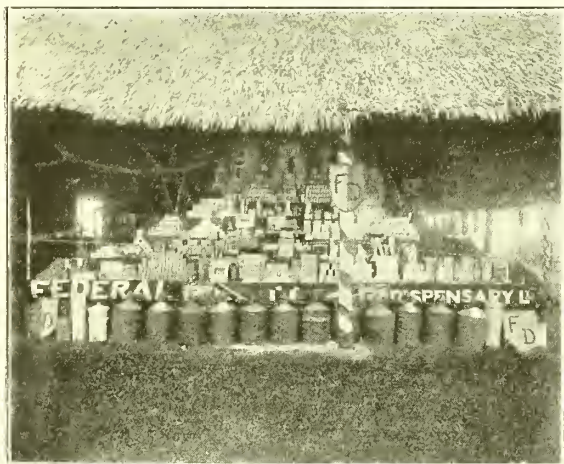


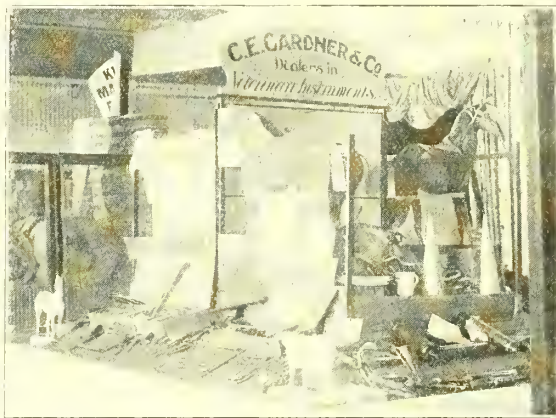
EXHIBIT C: DRUGS AND CHEMICALS.

The wickered demijohns contained formalin and glacial acetic acid, which are much used in rubber production. Some of the articles exhibited on the pyramid are: sparklet syphons, euthymol toothpaste, Vana, Virol, Wellcome quinine sulphate (white pile in the centre, but there was \$800 worth on the shelves), and surgical dressings. A large rat (stuffed) is on the second shelf to the left, and advertises the F.D. rat-cure.

off the nature of the exhibit, the draping of (a) being in two shades of green, (b) red, black and yellow (Selangor colours), (c) blue, and (d) scarlet. Festoons of Para and Rambong rubber leaves and strings of rubber seeds made an appropriate setting and the letters "F.D." were made out of Para rubber seeds and fixed on shields. A large crown made entirely of rubber seeds surmounted the

pyramid, and a small boy in a uniform of green and buttons made of rubber seeds was in attendance to distribute price-lists. Kuala Lumpur is the capital of the F.M. States and the centre of the rubber-growing district, and is likely to become a very important place in the near future.

Our next picture is from a photograph of Messrs. C. E. Gardner & Co.'s stall at the King Williamstown and Port



A VETERINARY EXHIBIT.

Elizabeth Agricultural Show. It is entirely devoted to veterinary instruments, in which the company specialise, particularly for the requirements of South Africa. They issue an illustrated catalogue, which any chemist in South Africa can obtain on application. Veterinary outfits were a feature of the exhibit illustrated, and among several kinds of castrating instruments was a set for ostriches. We understand that ostrich castration is likely to be conducted in South Africa on a large scale, the effect being twofold—viz., (1) the weedy cock-birds are debarred from breeding and the strain consequently continually improved; and (2) the capons bear a very much finer feather.



A Nice Pharmacy.

We are indebted to Mrs. F. A. Degen for this photograph. Writing from the Hôtel Royal, Rome, she says: "It is a photograph of F. Mary, a woman chemist who leases and runs her own shop in Rue Lepaute 22, Nice, France. She studied for six years at Lyons. She has been in business for one year and has been very successful. She employs another woman to clean her shop and keep things in order, a boy to deliver goods, otherwise she is quite alone. She is about twenty-five years old and is quite a pretty woman. Her shop is neat, attractive, and up-to-date. I think this will interest your readers."



# Counsel by Colonial Confrères

About Commercial and Pharmaceutical Relations within the British Empire.

THESE are a few messages which we have received during the past two months from Colonial chemists, mostly holding official positions. Their purpose is to encourage renewed consideration by exporting houses of the special conditions of our Colonial markets. The demand for chemicals, medicines, and all kinds of druggists' goods is splendid, and Colonial purchases have been increasing steadily during the past quarter of a century. Now British houses find that they have persistent rivals. Our correspondents indicate the more important directions in which they are better catered for by American and German houses. It will be noticed how the existence in Great Britain of an ancient stamp-duty on proprietary medicines affects imports of these into certain Colonies. Our stamp-duties practically fix the minimum price of a proprietary domestic medicine at 1s. 1½d., which means 1s. 3d. or 1s. 6d. in a Colony. The demand is for something at the equivalent of 6d. or 1s., and it is being supplied by the United States, where there is no stamp-duty. Willingness of our Colonial cousins to buy from the Mother Country is not diminished, but they inherit from us the disposition to buy in the best market the best articles at the best prices, with as little sentiment as possible. The letters from which we quote reflect this spirit, and the particulars and portraits of the men who speak assist in making the contributions somewhat of the nature of friendly chats between Colonial customers and home exporters. We also include in the series a special contribution on pharmacy in Australia.

## Canada.

Mr. G. E. Gibbard, President of the Ontario College of Pharmacy, is one of the best-known pharmacists in the Dominion, and is conspicuous for his work in the administrative, commercial, educational, and journalistic sides of the craft. He was born in Canada, of English and Irish parentage, and after his school education became an apprentice to Mr. H. J. Rose, of Toronto, and passed the examination of the Ontario College of Pharmacy in 1880. He then conducted a business in a country town for ten years, and went back to Toronto in 1890, where he has continued in business since and now has three drug-stores. He was elected President of the Ontario Society of Retail Druggists in 1896, the first organised movement in the Dominion to control and maintain uniform prices of proprietary medicines, and contemporary with the P.A.T.A. Since then he has taken a leading part in every movement that has been organised in Canada having for its object the bettering of the commercial phase of pharmacy and elevating the professional standing of the craft. In 1892 Mr. Gibbard was elected as representative for Toronto on the Council of the Ontario College of Pharmacy; he became Vice-President in 1906, and President two years later. In 1907, as a delegate from the College, he took an active part in organising the Canadian Pharmaceutical Association, and was selected as its first President, a position which he still holds. To all these activities Mr. Gibbard adds journalistic work as proprietor and editor of the "Canadian Pharmaceutical Journal," which he acquired in 1896. A broad-minded man with liberal British sympathies, Mr. Gibbard is particularly well qualified to express an opinion on the commercial and pharmaceutical relations between Canada and the Homeland.



MR. G. E. GIBBARD.

I am especially delighted to see that the Council of the Pharmaceutical Society of Great Britain has been empowered by the recent Act of Parliament to enter into reciprocal arrangements with the various States of the Empire, whereby licentiates holding Colonial diplomas may be registered in Great Britain without examination. Canadians are ardent Imperialists, and welcome any movement which has for its object the tightening of the bonds of the Empire.

The benefits following an arrangement for complete reciprocity of diplomas between the Mother Country and Canada will accrue especially to licentiates of Great Britain, as such are at present coming to the Dominion in considerable numbers and find themselves handicapped by the regulations which debar them from the privileges of practising their profession here—privileges which would be extended to them gladly by the various provinces of the Dominion under such an arrangement.

In matters of trade and commerce also the Canadian is an Imperialist with a decided preference for dealing within the Empire; but he is also a fair bargainer, and does not carry his patriotism so far as conferring trade favours on his fellow-citizens at too high a cost. In other words, he prefers British products to those from any or all other countries, but requires that such products meet the needs of his trade. He will give British products the first call on equal terms with those of competing countries.

To secure this equality some obstacles require removal from the course of trade to insure a steady and uninterrupted flow of British goods to Canadian markets. One of the principal of these is a lack of promptness on the part of the British exporter. So far as I can gather, the universal experience with Canadian importers is that orders require in the neighbourhood of three months for delivery, it being no uncommon occurrence for Canadian customers to pay drafts for goods which are delivered thirty days after. It appears to me that were the promptness which characterises collections applied to the shipping it would result in a rapid expansion of trade between the countries.

Neglect of correspondence is another shortcoming of the Britisher. With the United States there is an absolute certainty almost to the hour of a reply to communications on trade questions. With France and Germany replies can be relied on to a fair certainty according to sailings, but from Great Britain no reliance can be placed on receiving a reply to a communication in anything short of a month or a month and a half. Apparently it is looked upon that Colonial trade can wait the convenience of office routine or home demands. A prompt reply, say by return sailing, should not be impossible in a well-conducted office, yet the writer himself has had to wait two months for a reply to a simple question regarding quotations or information as to quality of goods.

Currency is also a serious question with the Canadian. We have so adapted ourselves to the simple decimal system that British currency is a puzzle to the average business man, and he would prefer almost to use an inferior article at a slightly higher cost than worry over the working out of prices and passing Customs of English goods billed in sterling. In fact, such is almost beyond his ability. These are a few of the obstacles which obstruct the path of trade between the countries which prevent the rapid growth of imports from Great Britain, and they do not appear as insurmountable in character. The matter of promptness in correspondence and shipping is entirely in the hands of the producer in the Mother Country, and a thorough appreciation of the Canadian's requirements along these lines should clear the way with little or no delay. The currency question might be handled in a satisfactory manner by shipping to a broker in this country, who could pass Customs and re-bill in Canadian currency. As an alternative, prices might be worked out in Canadian currency in the home office, as is already the custom with some few houses. In this connection it might be wise on the part of British export houses and producers to issue catalogues and price-lists in Canadian

currency, as do some of the more enterprising German firms.

Were it not deemed impertinent, I might suggest that a course in Canadian geography would be beneficial to British exporters. There appears such a deplorable lack of knowledge as to location in the Dominion that one almost despairs of the possibility of the immensity of area in this Canada of ours becoming known to the Motherland.

*G. E. Gibbard*

Mr. A. W. P. Gourlie, President of the Prince Edward Island Pharmaceutical Association, is still on the bright side of thirty. He graduated from the Ontario College of Pharmacy in 1902, and went to the new province of Saskatchewan, where he conducted a drug-business in Maple Creek. On the death of his father in September 1903, he returned to Summerside, P.E.I., and took over his business, which had been established in 1866. In 1905 the Prince Edward Island Legislature passed a Pharmacy Act, due to the efforts of the leading members of the drug-business in the province. Mr. Gourlie was appointed a member of the first Council of the Pharmaceutical Society, and this year was elected President.

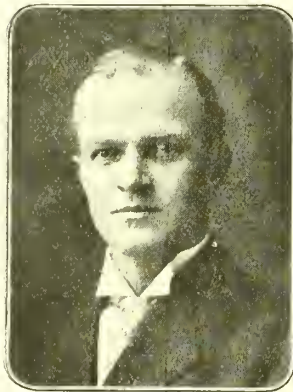


MR. A. W. P. GOURLIE.

When the Canadian Pharmaceutical Association was formed Mr. Gourlie was the delegate sent to represent his Association at the meeting, and in 1908 he again represented his province at the first annual meeting of the Federal Association. Associated with him was the Hon. Geo. E. Hughes of Charlottetown, Prince Edward Island. Mr. Gourlie is Chairman of the Committee of Commercial Interests in the Canadian Pharmaceutical Association.

Mr. E. S. Knowlton, of Vancouver, B.C., President of the

British Columbia Pharmaceutical Association, has been twenty-three years in the drug-trade, five of them being passed in apprenticeship. He has been a member of the British Columbia Pharmaceutical Council for four years, and represented the Association at the meeting of the Canadian Pharmaceutical Association in Toronto last year. He takes a keen interest in pharmaceutical affairs, not only in Canada but throughout the Empire, and in trade relations within it. His observations on the latter, so far as chemicals, drugs, and allied products are concerned, are appended, and are well worth consideration.



MR. E. S. KNOWLTON.

The Parliament of Canada passed in 1898 a Bill giving preference in Customs tariff of 25 per cent. on goods imported from Great Britain. This was further increased in 1900 to 33½ per cent., which gave the manufacturers of Great Britain a decided advantage over other countries in shipping goods to Canada. In 1907 this was slightly changed to give a fixed duty on different articles at the *ad valorem* rate, but the statistics which are submitted herewith have only to do with the period of 1903 and 1906 during which the 33½ per cent. preference was in force. The data are copied from an official or Government publication, and may be taken as correct. Take the items of drugs, dyes, chemicals, and medicines as imported into Canada in 1903 and 1906. A statement of comparison is here shown:

*Imported from Great Britain in 1906.*

Total amount of goods imported showed an increase of 18 % over 1903.

Perfumery (non-alcoholic)	increased by 70 %
Soap ... ..	increased by 37 %
Sponges ... ..	decreased by 8.4 %

*Imported from the United States in 1906.*

Total amount of goods imported showed an increase of 34 % over 1903.

Perfumery (non-alcoholic)	increased by 63 %
Soap ... ..	increased by 50 %
Sponges ... ..	increased by 38 %

*Imported from all Countries in 1906.*

Total amount of goods imported showed an increase of 25 %.

Perfumery (non-alcoholic)	increased by 0.62 %
Soaps ... ..	increased by 0.44 %
Sponges ... ..	increased by 2.8 %

Thus it will be seen that the drugs, dyes, chemicals and medicines imported into Canada in 1906 showed an increase of 25 per cent. over the year 1903, while those imported from Great Britain only increased 18 per cent., which shows a shortage of 7 per cent. on Canada's average imports in these lines. Of perfumery (non-alcoholic), which, I fancy, is used mostly in the manufacture of perfumed soaps, our import from Great Britain was 8 per cent. more than Canada's average increase from all countries. The import of soap from Great Britain shows a shortage of 7 per cent. of the average increase from all countries. On sponges, which, of course are only handled in Great Britain, while our average increase from all countries was 2.8 per cent. our import from Great Britain showed a decrease of 8.4 per cent. Our import of drugs, etc., from the United States during this period increased 34 per cent., which was 9 per cent. greater than the increase from all countries. Perfumery (non-alcoholic) from the United States increased 63 per cent., which was 1 per cent. more than the increase from all countries. Soap from the United States increased 50 per cent., which is 6 per cent. greater than our increase from all countries. Sponges increased 3.8 per cent. from the United States, which is 1 per cent. of an increase from all countries.

These figures are in the face of the 33½ per cent. preference in favour of Great Britain, and I think had the manufacturers and dealers in the Mother Country been alive to their own interest they would not have allowed this state of affairs to exist. It is true, possibly, that our trade may not have been very large, but it has been steadily on the increase, and the last few years it has increased very rapidly indeed; and while some few houses paid considerable attention to trade in this country, I fancy it has been mostly due to the efforts of men in this country to secure commission lines whereby to increase their own income rather than an effort on the part of manufacturers in the Old Country.

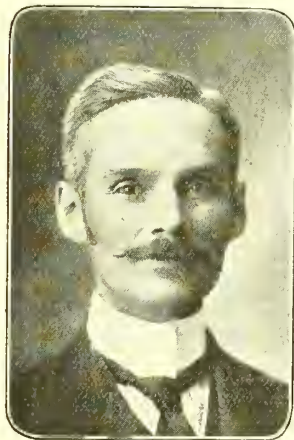
In the matter of perfumery and toilet soaps, Great Britain has allowed the trade to go almost exclusively to the French manufacturers, who have for years had the preference in this market, both through the energy displayed in securing business and the quality and appearance of goods manufactured. A good deal of dissatisfaction has been expressed in this country, particularly in small shipments, by the excessive charges on shipments before being placed on board ship to be brought to this country, and when the goods have reached their destination prices were found to have been in excess of what similar goods have been purchased at in this country. Some of the houses in the Old Country, I have reason to believe, have been advised of things necessary to be done in order to obtain business, but have not seen fit, for some reason, to comply with these advices. In British Columbia we have excellent facilities for receiving goods from Great Britain by both sailing and steam ships, and there is no reason that I can see why a much larger trade might not be done by Great Britain with this country if the manufac-



turers and dealers were alive to their own interests. We are very soon to be the basis of supply for a much larger population than this country has had in its past history, owing to the large influx of people from the United States and elsewhere occupying our agricultural districts in the central and western parts of Canada, where the prairie sections are being used for the growing of much more wheat than has heretofore been grown; and while the trade of this country may have previously been thought comparatively insignificant, this condition is not likely to apply much longer.

*E. S. Knowlton*

Mr. James Findlay, President of the North-West Territory Pharmaceutical Association, is a native of Western



MR. J. FINDLAY.

Ontario, where he was born fifty years ago, and entered pharmacy when he was seventeen years old, serving an apprenticeship of three and a half years. He subsequently studied in the School of Chemistry and Pharmacy, Toronto, supplementing the usual course by working privately in the laboratory of Professor Hays. He qualified with honours. After that he accepted a position as manager of a drug-store belonging to Dr. Lafferty in Pembroke, Ont., and eighteen months later purchased the business. He remained in Pembroke twenty years, when, unable to resist the attractions the West offered, he left that town, and, in the fall of 1900, purchased the business of a Mr. J. G. Templeton, of Calgary, Alberta.

Mr. Findlay has developed this steadily, and as the James Findlay Drug Co., Ltd., it is one of the foremost pharmaceutical concerns in the North-West Territory. Mr. Findlay's observations, appended, corroborate in the main what Mr. Gibbard has said.

We purchase largely of drugs, chemicals, and other drug-store necessities manufactured in the British Isles, mostly through agents, sometimes direct. I think there is a tendency for preferential trade with the Mother Country, which could be developed by the establishment of more agencies in this country.

In the matter of encroachment of Great Britain's trade with Canada by other countries, we find that France with perfumes and brushes, Austria with brushes and leather goods, and Germany with chemicals are encroaching very heavily. The Old Country should find a remedy for this. We find that some British houses have lately given us more attention. All lines of goods of British manufacture could be sold if "pushed" by good representatives.

I should like to point out to the British manufacturer, however, that it would be to his advantage if he would invoice his goods in the currency of the country to which they are consigned. British currency is none too simple where the American system is in vogue.

*James Findlay*

#### British West Indies.

Mr. John G. Ferrier, F.C.S., who has control of the English Pharmacy (Messrs. Alex. S. Laing & Co.), Port-of-Spain, Trinidad, B.W.I., is a native of Arbroath, Forfarshire, and was educated at the High School of that old Abbey town, served his apprenticeship with Mr. John Robertson there, and enlarged his experience with Mr. T. R. Lester, of Cork. He studied for the Minor examination with Mr. W. Duncan,

Edinburgh, passed in April 1900, then returned to Mr. Lester for six months as senior assistant, after which he came to study for the Major under Mr. Watson-Will at the Metropolitan College of Pharmacy, and after a further session at the Royal Dispensary, Edinburgh, passed the Major in April 1901. He again returned to Mr. Lester until the following year, when he

went to Belfast and attended the lectures and practical course in chemistry at the Institute for the Irish Licence examination. At the beginning of 1903 he returned to Edinburgh to manage the pharmaceutical laboratory of Messrs. J. F. Macfarlan & Co., Abbeyhill Chemical-works, and devoted part of the 1903 summer holiday to sitting for the Irish Licence examination in Dublin, and passed, taking first place among the successful candidates. At the beginning of 1905 he assumed the



MR. J. G. FERRIER.

management of the retail and dispensing departments of the business of Messrs. Alex. S. Laing & Co., two years later being appointed to the control of the business (wholesale, retail, and aerated-water works), including management of a branch store in San Fernando. He joined the Pharmaceutical Society of Trinidad on arrival in the Colony, and was elected President in 1907 and re-elected in the following year. He has since been succeeded in that office by Mr. L. O. Innis. Mr. Ferrier's observations on business conditions in, and relations with, the West Indies may be taken as covering the whole of that part of the Empire.

Ten years ago the drug-trade of Trinidad was in a very satisfactory condition from the proprietors' point of view; prices ranged high all over and competition was scarcely felt. Since then the number of drug-stores has steadily increased until at present there are twenty concerns in Port-of-Spain alone. Price-cutting has naturally been the result, and now the druggist must keep very much alive if he wants to retain the *clientele* his many rivals are so willing to relieve him of. There is but one drug-establishment (and that a branch of a hardware business) that confines itself to a wholesale trade; but several of the larger retail druggists do a considerable turnover in supplying the smaller stores in town and country, besides estates in this and neighbouring islands.

Very few doctors do their own dispensing, so the great majority of prescriptions find their way to the pharmacies, and prices are fairly remunerative—6-oz. mixtures 1s. 6d., 1 dozen pills or powders 1s. 6d., etc. Many of the drug-stores run very considerable grocery and wine businesses in connection with the pharmacies. The aerated-water factory of the English Pharmacy is the largest in the Colony.

The Pharmaceutical Society is fully recognised by the Government, but its examinations are conducted by the Medical Board. Each druggist pays a licence of 20s. annually to the Medical Board, which contribution is supposed to be devoted to conducting prosecutions against unlawful drug-trading. There are three official examinations: (1) the Preliminary, (2) the Assistants, and (3) the Licence. As practically all galenicals are imported, the apprentice has little opportunity of learning preparation methods, while the lack of a proper school of pharmacy further handicaps the student when preparing for his examinations. Hours of business range from 6 A.M. till 9 P.M.; in the case of the larger stores from 6.30 A.M. till 6 P.M. The official journal of the Pharmaceutical Society is the *C. & D.*

Regarding the comparative amount of trade done with Britain, Germany, and U.S.A. (practically all supplies come from these countries), unless the home drug-firms look after their interests and the needs of their customers the business will gradually be entirely transferred to the other countries mentioned. At present considerable shipments of chemicals are imported from Germany, owing to their general excellence and low price. Galenicals are

almost wholly imported from British houses, but a large and growing proportion of crude drugs comes from Germany. British firms fill and ship orders much more promptly, but prices of goods range higher than those from Germany. Every mail brings a shoal of German and other Continental price-lists and letters requesting indents. Altogether, foreign firms are much more enterprising in going after new business.

Here the demand for patent medicines is remarkable, but British "patents" are pushed out of the market, as they are invoiced at such high rates as to make the dealer keep them carefully in the background of his store. The Americans have annexed the cream of the business in "patents." They put them up to retail at popular prices on which a reasonable profit comes to the retailer, they are advertised all through the Colony by means of almanacs and bills, while the druggist is encouraged to sell them on demand. A few of the better-advertised British "patents" are in evidence, but no druggist is anxious to increase his orders for them in view of the miserable return. A British "patent" face price 1s. 1½d. costs about 1s., while an American or Canadian "patent" can be put into stock for 8d., and will sell readily for 1s.

All possible indents would, however, gladly be sent to home firms, whose promptness, accuracy, and general fair-dealing contrast so favourably with German slowness and American mistakes and bluster. It is entirely a question of price and resulting profit to the buyer, and here the American and Continental firms are winning all round.

*John G. Cooper.*

#### South Africa.

We recently gave a portrait of Dr. Froembling, President of the Pharmaceutical Society of Cape Colony (see *C. & D.*, March 13, p. 396), and now give as a companion to it the portrait of Mr. W. N. Cooper, President of the



MR. W. N. COOPER.

Northern District Chemists' Association, the son of a Scotch chemist who went out to Cape Town fifty years ago and up to his death four years since practised all the time in the capital, and was one of the oldest chemists in South Africa. Mr. W. N. Cooper had the misfortune to lose his right leg by amputation at the knee when he was thirteen, but he appears not to have missed it much, for he is a good cricketer, and keeps up his love of and participation in the sport. He served his apprenticeship in part with his brother in Kimberley, and started business at West End on his own account in 1889, just after he had attained his majority. It was not until 1892 that he entered for the Board of Pharmacy examination, and he carried away No. 2 certificate. Besides his pharmacy in West End Mr. Cooper has had branches at Kallyfontein, Mafeking, and Zeerust, the first of which he sold out before the war. He has never visited the Old Country, but lives in hope of so doing. He writes briefly on trade matters.

Re business relations of our part of the world with the Mother Country there are certain lines that we can buy cheaper from America and Germany, but taken on the whole I think that in the British market drugs, etc., can be bought as advantageously as anywhere if bought in proper quantities. We are being well looked after by certain British firms—notably Evans Sons Lescher & Webb, Southall Bros. & Barclay, and Hewletts—whose travellers call round twice yearly. Several of these firms have been

sending out directors and heads of departments to visit us, which has helped to form a bond of business friendship in future correspondence.

*W. N. Cooper*

Mr. Austin Purnell, President of the Pharmaceutical Society of the Transvaal, is not the writer of the notes here given on pharmacy in that rich Colony, but reference to him may appropriately preface them. Mr. Purnell is a Somersetshire man, and served his apprenticeship with Mr. Thomas Grant, of Clevedon. Subsequently he had experience as an assistant with Mr. J. H. Mather, J.P., of Godalming, with Mr. J. H. Harrington, Vice-President of the Pharmaceutical Society, and with Messrs. Curtis & Co., of High Holborn. He passed the Minor examination in April 1897 from the City School of Pharmacy



MR. A. PURNELL.

(where he had been a demonstrator), and soon after went out to South Africa, being engaged by Messrs. Lennan, Ltd., whose retail pharmacy in Pritchard Street, Johannesburg, he manages. The notes which are appended refer especially to intercolonial pharmacy and Transvaal opportunities.

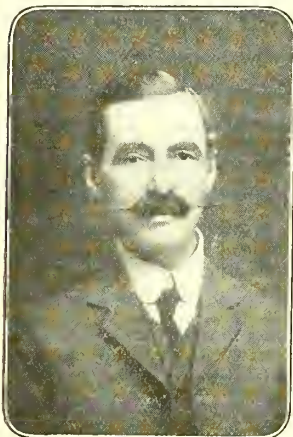
Compared with other occupations, the practice of pharmacy in the Transvaal can hardly be considered a lucrative one. Rents are exorbitant, while the cost of living is, roughly speaking, three times as much as in the United Kingdom. With about half-a-dozen exceptions in the whole Colony, all the pharmacies are one-man establishments, conducted either by the owner himself or by an assistant for a company owning a number of branches.

Country towns like Heidelberg, Potchefstroom, and Middelburg are centres of very extensive rural districts supporting large populations, and it might be thought that the chemists in such towns must do a large business in consequence. The farming community, however, although large consumers of Dutch medicines and proprietaries, obtain all their supplies of such, in common with other necessary commodities, from the general dealers scattered over the country districts, and rarely patronise the "Apotheker" unless living in his immediate vicinity. On the Witwatersrand, where the conditions more closely approximate to those of European countries, the proportion of chemists' shops to population is excessive, there being between eighty and ninety within the municipality of Johannesburg alone, which, according to the Municipal Returns of 1906-7, had then a population, in round numbers, of 84,000 whites, 89,000 South African coloured, and 15,600 Asiatics. When it is remembered that of the above army of coloured people the major portion have their medical wants looked after by the mining corporations and other large employers of labour, who in turn get all their supplies on contract, it will be seen that the seventy or eighty "small" chemists have not an extensive *clientèle* to draw upon. The contract system of furnishing medical requirements does not end with the supply of drugs, dressings, etc., for natives only, but on each mine and department of the Civil Service, and in the headquarter offices of the mining corporations, sick-benefit societies have been instituted for the white employes, who by this means get their medicines dispensed at prices which, in some cases, are no better than home contract-rates. A system which permits heads of departments in large undertakings, in receipt of anything from 800*l.* to 2,000*l.* per annum, and other well-paid officials, to obtain medicines at about one-third of ordinary rates can only be characterised as pernicious.

The President of the Pharmaceutical Society of Natal is a pharmacist who has had the unique experience of training



three Bell scholars whose names are still well known in British pharmacy—viz., Mr. R. A. Cripps, Mr. J. Grantley



MR. J. H. READ.

Tingle, and Mr. E. F. Harrison. The President is Mr. John Henry Read, formerly of Holloway Road, London, N., and Victoria Street, S.W., a brother-in-law of Mr. T. H. W. Idris, M.P. He was apprenticed in London in 1869, passed the Minor examination in July 1874, and subsequently served about two years with Messrs. Allen & Hanburys, Plough Court—experience upon which he looks back with the greatest pleasure. He started business for himself in Holloway Road and remained there eighteen years, when he went to Victoria Street, where he was for seven years. His health failing, Mr. Read gave up business and went to South Africa soon after the war. He acquired the Beach Pharmacy, West Street East, Durban.

Natal is a lovely country, but there are too many chemists. During the war and immediately after pharmacies sprang up like mushrooms; now for the last four years there has been a steady decline going on, and trade is bad.

Our wants are well looked after by representatives of firms from the Old Country and America, and those who have for many years secured a foothold out here no doubt do well; but it is very difficult ground for new firms to try. Business feeling is very conservative, and, with home-buying arrangements and other holds, the new man has but a poor chance. Foreign firms (except American) do not attempt to trade except by circular, and then, I think, with little success. Patent medicines that are well and consistently advertised have a good sale, and those who give special attention to this by agents on the spot must find it a good market.

I always look forward for the mail to get THE CHEMIST AND DRUGGIST, and should feel quite out of the world without it. It seems to link up the past with the present, and one does not feel so far away.

*J. H. Read*

### The East.

The only drug-trade organisation in the Oriental parts of the British Empire is the Straits Pharmaceutical Association, whose headquarters are at Singapore, and whose President is



MR. JAMES MCKENZIE.

Mr. James McKenzie, manager of the Singapore Dispensary, Ltd., 40 Raffles Place, Singapore. He is a native of Dumfries, and was apprenticed in 1884 to Messrs. Carruthers & Allan there, whom he left in 1888 for a position with Messrs. Grattan & Co., Ltd., Belfast. After three years with them he came to London, but three months of the indoor system convinced him that it was not the best place in the world, so he went north to Edinburgh to take a part-time place and study for the Minor examination under Mr. W. Duncan. He passed in April 1891, and three months later accepted the post of manager and secretary to the Singapore Dispensary, Ltd. During the

eighteen years that Mr. McKenzie has been in the East he has had two trips home, and expects to get another next year. His observations on the drug-trade of the East are full of interest.

During my stay in Singapore, pharmacy has undergone a radical change. A Poisons Ordinance, a Deleterious Drugs Ordinance (formerly called the Morphine Ordinance), and other Ordinances affecting the chemist have been introduced, as also a Medicated-wine Ordinance. The Deleterious Drugs Ordinance covers morphine and all alkaloids of opium and cocaine, and any quantities of these used in prescription or otherwise, have to be sent in monthly to the P.C.M.O. Permits are required both to import and to export these drugs.

The principal pharmacies here are under the management of qualified men from the home country, and general good friendship and *bonhomie* exist among us all.

The Straits Pharmaceutical Association was formed about five years ago, and since its inauguration has served a very useful purpose in advising the Government on all matters pertaining to pharmacy. Meetings are held occasionally to discuss matters concerning the trade, and particularly when anything pertaining to the drug-trade is before the Legislative Council. The chemists in Kuala Lumpur (F.M.S.) and in Penang are also members.

Being so far from the source of supply, chemists naturally carry much larger stocks here than they do at home. Our wants are well supplied by all the leading wholesale drug houses, whose representatives come round at different times, and they generally pick up something which makes it worth their while. When I first came out we usually had one drug traveller once a year, but now with the keen competition we often have as many as three or four a month, not forgetting the soap and perfume representatives, who are as plentiful as bees and just as busy.

The Mother Country still holds the bulk of the chemical and drug business, but the Germans are now getting in, although not to any great extent. Their prices are generally a trifle lower, but, in my opinion, if you want a decent article, you must pay for it, and as regards quality, the home country wants a lot of beating. There is only one thing I have to complain of about some manufacturers in the home country, and that is, they should study local conditions more. For instance, some pills at home will keep indefinitely in a box, but for this climate they ought to be put in bottles and hermetically sealed. Adeps and adeps benzoatus, with the constant heat here, want stiffening up with wax, otherwise they arrive here like oil in a tin. Certain powders, too, need consideration. They may keep well at home in a tin, but in this climate they become fungoid; consequently bottles are the best packing for the bulk of them, and no dearer than tins. Our normal temperature in the shade is 88° F., so manufacturers in the home country ought to consider this when exporting drugs to this Colony. I have known London wholesale houses exporting lozenges in a tin, and, of course, on being opened, nothing but a mass is found which can hardly be picked out. With a little forethought this could easily be avoided, and endless worry to the chemist prevented.

These are only a few instances; there are hundreds of others, and if any wholesale houses are ever in doubt about certain packing for this climate, I shall be pleased at any time to assist them.

*James McKenzie*

### Australia.

Mr. E. Parry, the President of the Pharmaceutical Society of Western Australia, began in 1875 his career in pharmacy as an apprentice to Messrs. Field & Co., homœopathic chemists, 21 Charing Cross, London, who were the successors of Rendall & Heath. During his apprenticeship of five years the business was removed to High Holborn. At the end of the apprenticeship Mr. Parry went for a year as assistant to Messrs. Armbricht, Nelson & Co., Duke Street, Grosvenor Square, then for three years as an assistant in a Hanley pharmacy. His health breaking down, and being advised to seek a drier climate, he in 1885 secured a position as second assistant with Messrs. G. N. & W. H. Birks, of Adelaide, South Australia. After seven-and-a-half years with this firm Mr. Parry entered into partnership with Mr. J. H. Grundy,



of the Standard Drug Co., Adelaide, and went to Western Australia in 1892, where they commenced business in Fremantle.



MR. E. PARRY.

He had not been there many weeks when a meeting of chemists was held in Perth for the purpose of founding the Pharmaceutical Society of Western Australia, and he was elected a member of the committee charged with the drafting of a Bill for a Pharmacy and Poisons Act, which became law in 1894, when he, with the other members of the committee, was appointed by the Governor a member of the first Council of the Society, to which he has since been re-elected every three years by the members of the Society. He was Treasurer of the Society for eleven years until 1904, when he was elected President.

From my twenty-four years' experience in Australia, he says, I should like to state that British manufacturers need waking up if they are desirous for increasing trade with the growth of Australia. The U.S.A. and Germany are very active and pushing, and are continually replacing British goods by their manufactures, both in drugs and patent and proprietary articles of every description. Their emissaries seem to have the wonderful power of converting a very large proportion of our medical practitioners to the belief that their preparations are superior to those produced by Great Britain. In some cases this may be so, but British manufacturers should strive not to be excelled. To counteract this, we Australian pharmacists are working hard on our Australian Pharmaceutical Formulary, which I look upon as the future Australian Pharmacopœia in embryo. The British manufacturers of indiarubber goods would do well to study the American manufacture of these lines, especially enemas, hot-water bottles, atomisers, etc. We find the American rubber goods (even the cheapest grey) will keep perfectly in our trying climate for ten years, while British goods of similar value often perish within two years.

*E. Parry.*

#### Australia for British Chemists.

Can you give us in the *C. & D.* a series of letters from men in business in Australia? Your *Diary* for 1909 treats of countries abroad all from the assistants' point of view. Are there no businesses for sale out there? Are there no reasonable opportunities for men with 500*l.* or 1,000*l.* who are deadly tired of this cursed climate . . . ?

So wrote "J. M." to the *C. & D.*, and the Editor of "The Chemist and Druggist of Australasia" takes up the challenge thus:

"This cursed climate!" When I travelled to Australia twenty-four years ago I thought I had left behind all talk about the weather—that it would be so uniform and so delightful it would disappear from ordinary conversation. I never was more absolutely mistaken. Weather is talked of in all parts of Australia, and in Victoria it is perhaps more variable than in England. But Englishmen (I beg pardon, Britons and Irishmen) must remember that Australia is bigger than Europe and includes many different climates. Some prefer the more uniform climate of Sydney, but even there, within a few miles, different climatic conditions will be found. In Melbourne (the coolest capital on the mainland) frost is rarely experienced; days of rain are rare, though rain falls on as many days as in the Eastern Counties of England. The summer varies in severity. In the twenty-five I have experienced, two stand out as memorable—one with six weeks of almost continuous heat, without the sudden changes of cool west and south winds that generally come every few days; the other, January 1908, when the temperature for the first ten days

was high and then for another week the daily maximum never fell below 100° F., and one day went up to 111° F. in the shade. When it was over we wondered how we would have stood another week. But to people in good health the heat is rather stimulating than depressing, and sunstroke is rare compared with its incidence at much lower temperatures in Britain.

Australia, as regards climate, is undoubtedly an easy and pleasant place to live in, and it is said that people coming out in the forties add ten years to their life, though this is of course a wild generalisation.

#### GOVERNMENT AND POLITICS.

Another aspect not always mentioned is that everyone fills a much more important position than is possible to him in the Mother Country. In an area as large as England, Victoria, the most densely peopled State, has a population of something over a million, with a Parliament of two Houses, with thirty-four members in the Upper House and sixty-five in the Lower. No fewer than 206 municipalities are in existence. The electorates average 4,000 voters. The man of intelligence, therefore, has about thirty times as much chance of taking part in the government of the country, and is about thirty times as important in the community as he would be at home. Hardly a man of this character escapes a request to offer himself as a candidate for a municipal council or for Parliament.

As regards politics, the Briton will find it takes about two years to adjust himself to his new surroundings and obtain a fair grasp of the political life of the community.

A return visit to the Old Country confirmed these impressions. An ardent politician in England before I went to Australia, I felt profoundly on my return the weight and magnitude of the social machine, the much greater difficulty of moving it than in Australia. Britain—London—is the place for the man of transcendent ability. Australia gives the man of less ability a field where he will probably be able to render greater service to the community and loom larger in the eyes of his fellows.

These reflections might be extended to the general character of politicians, the alleged want of reverence, and the supposed greediness of Australians; but this would take us too far.

That visit to England crystallised into a phrase a useful comparison of life in the two countries. If an Englishman were dropped into either of the Australian capitals he would not know he was out of England. He would recognise that he was in a strange city, but that might happen to most men in England itself. The same is true of an Australian dropped into any provincial city in England. Australia, in its city life, is a suburb of England.

This is true of pharmacy and of all other occupations, of the people, dress, manners, domestic matters, locomotion, and almost every aspect of life.

#### UP-TO-DATE BUSINESS METHODS.

But the Australian city would be found curiously up-to-date. Goods are often sold here before they are shown in London, the reason being that manufacturers who are not ready to attack the London market may be willing to show samples and sell goods to Australian buyers, knowing that they will be sent to the other side of the world. Drugs mentioned in "The Lancet" may be met with in prescriptions the week after the journal reaches Australia, which is only four weeks after its publishing date.

Leaving the cities, the differences between Britain and Australia begin to appear, but they are in details, and in describing them the tendency is to speak of the exceptions without reminding the hearer that nine-tenths of life is much the same as in Britain, and the one-tenth is mostly more pleasurable. It must not be thought that competition in Australia is much, if at all, less than in the Mother Country. But the industrious, enterprising man has *perhaps* a better chance out here.

The supply of home-made—i.e., Australian-made—pharmacists is well maintained. Australian examinations are thorough; in South Australia and New South Wales students take courses in chemistry, botany, and biology at the University, practically the same as first-year medical students, and also pass other examinations in pharmacy before the Pharmacy Board. In Victoria much the same



course is followed; a well-equipped college of pharmacy has been in existence for over twenty years, and the University medical and dental students take some of their courses from its teachers. In Queensland a good College of Pharmacy exists, of which Mr. R. C. Cowley, formerly of Liverpool, has been made director. In Western Australia similar facilities are obtained at the Perth Technical College. The rising generation of pharmacists of Australian training are noteworthy for their greater business acumen, and the complaint that pharmacy is played out has hardly been heard among them during the last ten years. I call special attention to this fact.

Another significant fact is that the wholesale houses who effect the transfers nearly always have on their books far more buyers of businesses than sellers. One man told me last month that anyone who cared to live quietly in his business (a country town in Victoria) could easily *put away* 500*l.* a year. He works with brains, it is true, but so can other men.

Again, I should estimate that nearly 1 per cent. per annum of pharmacists in business in Australia have been paying visits to the Mother Country during the last few years. That is not done for nothing! Pharmacy in Australia is not played out!

A British pharmacist can secure registration in any Australian State without examination. He must produce his certificate and proof of identity and pay the fee, generally a guinea. If he has lost his original certificate he must bring evidence from the Pharmaceutical Society of Great Britain that he is registered and entitled to practise in Britain.

Anyone contemplating a visit to Australia for the purpose of settling here must be careful to bring credentials. Mere testimonials as to character are of little value *unless the writers are known in Australia*. A moment's thought will show how reasonable this is. The less respectable a man, the less hesitation he would feel in producing forged testimonials. While a pharmacist may have no acquaintance who is known to anyone in Australia he always knows of someone who is known out here. Quite a number of British houses have branches or their own representatives in Sydney or Melbourne. Any pharmacist of good repute could get a letter from one of these houses. It might even run in this way:

The bearer, Mr. A. D. Venturer, is not known to us personally, but our good friend Mr. W. E. L. Stabished assures us that he has watched his career for the last ten years and has the greatest confidence in recommending him to our good services. We have no hesitation, therefore, in asking you to do anything you can to forward Mr. Venturer's desires.

The writers should send the addressee a copy of this letter of introduction, with a covering letter giving full confidential information of every detail known, especially the reason for leaving England, and it is well to add the sentence, "after inquiry we can hear nothing against his character."

#### WHERE AND HOW TO START.

Now for the openings. There are businesses for sale, and there are openings. But good things are not sold at a sacrifice, and openings need working up with patience, energy, and perseverance.

If "J. M.," whose "stimulus" has produced this "reaction," is coming to Australia, we should advise him to put his money for the time being into Australian Government bonds, that can be easily realised out here, and will return him in the meanwhile the moderate interest that accompanies good security. He can get information on such things from the Australian Agents-General in London. Australians pay the salaries of Agents-General to provide just such information. He should also ask for copies of the admirable year-books published by several of the Governments.

He can come to Australia *via* the Cape or through the Suez Canal. On arrival in Australia credentials should be presented to the wholesale houses. A preliminary visit to the offices of "The Chemist and Druggist of Australasia" in Melbourne or Sydney will find a welcome and a free answer to all inquiries, with such information as may be needed. But the wholesale houses are the transfer agents

in Australia. The pharmacist will be wise to undertake work as assistant or as reliever for a time, to get into the Australian stride, become familiar with the *slight* differences that do exist, and have a look round. Six months spent in this way will provide valuable experience, which will assuredly have to be bought and paid for in other ways if not gained thus.

Meanwhile he will gain some knowledge of climate and social conditions, learn where he is likely to settle down comfortably, and arrange to have the opportunity of inspecting any businesses that may come on the market.

We have heard that some openings exist in the country districts of certain States for anyone who is content to go into the country and work up the business of pharmacy in connection with side-lines, such as optics, seeds, veterinary medicines, and photography. He must be content with social conditions unlike any he would find in Britain, and must be prepared to turn his hand to any profitable line. But in such a position his scientific knowledge, wisely applied, will make him of great service to the community.

Openings in the cities also exist, but it needs greater pluck and resources to face them and make them a success. Greater openings offer themselves in the suburbs of the metropolitan cities, but here also resources are needed and much acumen in selecting a location and attacking the problems.

Many a pharmacist has been established in business by the aid of the wholesale houses. A man of known character who has saved some money can generally find a wholesale house to give him credit for the balance of the necessary capital. One per cent. more than ordinary bank interest is generally charged, and the beginner is supposed to buy all his supplies from the house that backs him. This is a relationship that needs tact and good sense on both sides to make it work smoothly. Naturally some inexperienced men do not realise all its involves, chafe fiercely at the bonds they have voluntarily assumed, and fill the ears of sympathetic hearers with loud complaints. It is very obvious that the interest of the wholesale house lies in retaining by any reasonable means the goodwill of the pharmacist they are helping, in view both of future business and permanent reputation. They have had long experience, and are not looking out for trouble. So when complaints are made it is well to accept the story as good till the other side is heard. Naturally, a man in this position will expect to pay more for his goods than a keen independent buyer, but if he has good sense he will remonstrate good-humouredly if the prices seem really too high, and he will not squeal.

#### ESSENTIALS FOR SUCCESS.

Australia is an easy place to live in *for the men who would succeed in the Mother Country*, and who have the wanderer's itch in their toes. But let no man think he will make his way with less work, or less brains, than would be necessary at home.

Come on, "J. M.," tie up your 1,000*l.* safely until you really want it; buckle to and gain a little Australian experience, watch for your opportunity, and take it when it comes. If you are the man we think you are, and do not take to quarelling with your environment ("this cursed climate"), we believe you will never regret it. But if too many of you come you will have to wait your turn—openings are not waiting for you.

Just a word about luggage. You can buy all you want in Australia. But you will be wise to bring a year's supply of suits (summer weight, though you will want warm under-clothing the second winter), shirts, underclothing, and boots. Do not invest in a lot of extra *light* clothes; the climate is not so desperately different as all that, and you will do better here when you know the ropes. Wear them all before you pack them away, or you may have to pay duty. Take some old clothes for the voyage and have a decent suit at hand to land in. If you are breaking up your home, it may pay you to bring some of your furniture if you are within easy reach of a port. We believe 5*l.* worth of secondhand furniture is admitted free with each passenger if it arrives within twelve months, but make your own inquiries. But if you do not know where you will settle this should have careful consideration.



## Chemists as Hunters.

MR. W. EASTERBROOK, chemist, Johannesburg, recently returned from a three months' shooting trip through Nyassaland, and we are indebted to Mr. W. Fortune for the following account of it.

Arriving at Chinde by steamer from Delagoa Bay, passengers were fortunately not kept waiting very long before the *Empress*, the largest of the African Lakes Co.'s fleet, was ready for her voyage up the Zambesi, the mode of transport on the river being the usual stern-wheel paddler, of which there are quite a number plying up and



HAMMOCK-TRAVELLING.

down. After three days' steaming on this extremely interesting river abounding with crocodiles, hippopotamus, and waterfowl of all sorts and sizes, the Shire is entered, another day being passed on this tributary. Romance faded away somewhat when orders were received to tranship into a house-boat, the river having become too shallow to proceed farther by steamer. After being a day in this miniature ark, Port Herald was reached in time to catch the weekly train to Blantyre, a distance of 112 miles. This



A BUFFALO BULL.

railway is the first in the country, and was formally opened during my stay by a most brilliant function given by the B.S.A. Company at Blantyre.

At Chiromo—about two hours from Port Alfred—I met my brother, an old resident of the country, who joined me in my trip to Lake Nyassa. After getting fully equipped with stores, tents, etc., and seeing our carriers—quite a small army in themselves—well on the road, we took advantage of the rail and trained it to Blantyre, the commercial

centre of the country. Meeting our retinue there, I had my first experience of the usual method of travelling, journeying by night to Zomba (the seat of government), a distance of forty miles, by Machila. The method consists of a canvas hammock slung on poles, into which one crawls and is jolted along uncomfortably at the rate of four miles an hour. From this charmingly situated place we proceeded by short journeys to Fort Johnstone, following the Shire more or less, and shooting *en route*. Fort Johnstone has great historic interest, being the scene of many a conflict between British troops and Arab slave-traders. A few miles further on and Lake Nyassa is reached. A glimpse of this magnificent expanse of water is sufficient to make one imagine what were the feelings of David Livingstone on first viewing this great inland sea. After a pleasant day's steaming on the lake we returned to the fort, and, after having a jolly time with the good fellows there, at midnight found ourselves on the "house-boat," which helps us on our way until we strike the game country once more.

Game is still fairly plentiful in parts, the bag comprising chiefly buffalo, eland, sable antelope, zebra, haartebeeste, waterbuck, impallah, and smaller species of antelope. Rhinoceros have evidently been shot down or driven further



A SIX-WEEKS' BAG.

afield. Elephants still exist, but it is no longer a favourable field for ivory hunters. We did not encounter any of the usual hair-breadth escapes, but one night we were awakened by an awful noise from the natives screaming that a lion had carried away one of the boys. However, this resolved itself into a visit from a hyena that had helped himself to some of the boys' meat, having leaped right into the centre of the natives.

The climate in the Shire highlands is quite salubrious, but in the river valley the heat is intense. The temperature during the summer months averages about 100° in the shade; it registered 110° during our visit. Nyassaland is thickly populated with natives, who are a happy and inoffensive race, causing very little trouble to the district resident. The river natives exist chiefly on fish, which they catch in nets. The fish is dried in the sun, and when one turns a bend of the river the odour which sometimes greets one is not quite *à la mode*. The staple cereal is maize, which the women pound, *secundum artem*, with an elongated pestle, in a large wooden mortar cut out of a tree-trunk. The meal is made into a stiff porridge, squeezed in the hand, and bitten off *p.r.n.*, no utensils being required. The root of the cassava plant is also greatly esteemed, and a native will travel miles existing on this tuber alone. The strophanthus plant is widely cultivated for export.

Our camp was generally pitched in or near a native village, and it was quite amusing watching the native mother holding up the "white man" as the bogie who would



come and catch the piccaninny who won't go to "by-by." The vegetation is wonderful and offers a perfect field for the botanist.

How glorious the camp life in the bush after a heavy day's hunting! One soon finds oneself dozing over the campfire, the pipe will go out, so turn in it must be. The distant roar of a lion and the howling of hyenas are music compared with the sound of that awful night-bell.

#### A TIGER SHOOT.

Chemists in Malaya occasionally have a spice of adventure in the way of tiger-shooting, as the subjoined photograph depicts. The portrait is that of Mr. F. J. Vavasour



Guy, pharmaceutical chemist, Federal Dispensary, Kuala Lumpur, who was one of a party of four that joined in the kill. Stripes, it appears, after committing depredations among cattle, was shot at night close to Pahang. He is a male, measuring 8 ft. 3 in. from tip to tip, and it took ten coolies to carry him.

### Business Changes.

**Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.**

MR. C. DONALDSON, chemist and druggist, has purchased the business of Mr. Ryder at Larbert, Stirling-shire.

MR. CHAS. WINDLE, formerly of Leeds, has taken over the business of Baker's Drug and Photo Stores, 573 Manchester Road, Bradford.

MR. JAMES STANLEY, chemist and druggist, Main Street, Bulwell, Nottingham, has opened an up-to-date branch pharmacy at 232 Highbury Road, Bulwell.

MESSRS. LINDSAY & GILMOUR's business at 11 Elm Row, Edinburgh, has been purchased by Mr. Fletcher McIntosh, chemist and druggist, formerly a partner in Messrs. Gibson & Co., chemists, Edinburgh.

MR. J. MAURICE JAMES, chemist and druggist, nephew of the late James Maurice, chemist and druggist, Plymouth, has taken over the business of Mr. John Davies, Ph.C., at 7 Stepney Street, Llanelli.

THE imports of drugs into Santa Marta, Colombia, during 1908 amounted to 12,017 kilos., of which 5,468 kilos. were obtained from the United States, 4,800 kilos. from France, 1,638 kilos. from Germany, and 111 kilos. from the United Kingdom.

### A Jamaica Pharmacy.

THE earthquake which wrecked the town of Kingston, Jamaica, on January 14, 1907, brought to ruins the premises of Messrs. John M. Crosswell & Co., 12½ King Street, Kingston. This was the largest drug-store in the town, and Mr. Eugene M. Magness, the proprietor, quickly set about re-establishing the business. He took



70 KING STREET, KINGSTON, JAMAICA.

temporary premises while he was settling the insurance problem and getting new stock. In the latter matter he was much aided by his buying agents, Messrs. Burgoyne, Burbidges & Co., London, for whom also he acts as agent in Jamaica. His new premises at 70 King Street have recently been completed, and we give interior and exterior views of them. The building has been constructed on earthquake-resisting principles. The pharmacy portion of the interior is shown. Messrs. Crosswell also do a heavy and grocery trade. The pharmacy is excellently fitted in the American style. To the right on entering is a



A GLIMPSE OF THE INTERIOR.

fine soda-fountain, and in front of it the marble-top counter where the cooling drinks are served. That side of the shop is fitted with cases for packed specialties, and the counter and showcases (all splendidly glazed) display infinite variety of toilet articles and preparations. The left-hand side of the shop is devoted to pharmacy proper. The shop-rounds have vitreous labels. The proprietor's desk is near the back (Mr. Magness is standing at it), and crossing the back is an English dispensing counter supplied by Messrs. Burgoyne, Burbidges & Co.



## Westminster Wisdom.

A Record of Parliamentary Progress.

### ANÆSTHETICS BILL.

The Medical Acts Amendment Bill, which has been introduced by Dr. G. J. Cooper, was down for second reading on Wednesday, but was not reached. Its promoters, however, are hopeful that a second reading may be secured on the understanding that the Bill is referred to a Select Committee of the House before which the objectors to the proposals therein contained may attend and give evidence. Sir William Collins, who is one of the backers of the Bill, informed our Parliamentary representative that the general principle of the Bill is that no practitioner—whether medical or dental—should in the ordinary way administer a general anæsthetic without having in the course of his education concerned himself with the theory and practice of anæsthetics. Personally, Sir William is strongly against excluding dentists altogether from the scope of the Bill. It is hoped that the Bill will be allowed a second reading, and that it will then be referred to a Select Committee, so that the objectors could give evidence. That would, in Sir William's opinion, meet the case. Sir John Batty Tuke, on the other hand, who is a member of the General Medical Council, informed our representative that he proposes to move the rejection of the Bill as being both unnecessary and unjust. The text of the Bill is as follows:

*A Bill to regulate the administration of anæsthetics, to make regulations relative thereto, and to amend the Medical Acts.*

Be it enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:

1. On and after the first day of January one thousand nine hundred and eleven, no person shall be registered under the Medical Acts in respect of any qualification referred to in any of those Acts unless he shall have produced evidence that he has received theoretical and practical instruction in the administration of anæsthetics.

2. Any person not a registered medical practitioner who shall administer or cause to be administered to any other person, by inhalation or otherwise, any gas or vapour, or drug or mixture of drugs, solid or liquid, with the object of producing unconsciousness during any medical or surgical operation, examination, act or procedure, or during childbirth, shall be liable, on conviction before a court of summary jurisdiction for such offence, to a penalty not exceeding ten pounds, and, in the case of any subsequent conviction, to a penalty not exceeding twenty pounds: Provided that a person shall not be liable to a penalty under this section if in conducting such administration he was acting under the immediate direction and supervision of a registered medical practitioner, or if the circumstances attending the administration were such that he had reasonable grounds for believing and did believe that the delay which would have arisen in obtaining the services of a registered medical practitioner would have endangered life.

3. Power is hereby given to the General Council to make any regulation or order to carry out the requirements of this Act.

4. Any registered medical practitioner who gives a certificate of death in the case of any person dying while under the influence of an anæsthetic shall be liable, on summary conviction, to a penalty not exceeding five pounds.

5. Nothing in this Act shall prohibit a person registered under the Dentists Act, 1878, before the commencement of this Act, administering an anæsthetic during a dental operation or procedure.

6. Offences under this Act may be prosecuted and all fines recovered in manner provided by the Summary Jurisdiction Acts. In the application of this Act to Scotland the expression "Summary Jurisdiction Acts" shall mean the Summary Jurisdiction (Scotland) Acts, 1864 and 1881, and any Act amending the same. In the application of this Act to Ireland the expression "Summary Jurisdiction Acts" shall mean a court of summary jurisdiction constituted in the manner mentioned in the two hundred and forty-ninth section of the Public Health (Ireland) Act, 1878.

7. The expression "Medical Acts" means the Medical Act, 1858, or any amendment of that Act. The expression "General Council" means the General Council of Medical Education and Registration in the United Kingdom. The expression "registered medical practitioner" means a person registered under the Medical Act, 1858, or any amendment of that Act.

8. This Act may be cited as the Anæsthetics Act, 1909.

We learn that the Government do not intend to support the Bill, as the Home Office Committee which has been appointed to consider the whole question of Coroners' law is dealing with, among other questions, that of the administration of anæsthetics. The Incorporated Society of Extractors and Adaptors of Teeth, Ltd., have issued a manifesto against the Bill, in the course of which they give some statistics showing the large amount of work done by their members and pointing out that the unregistered practitioners are at the present time necessary in order to comply with the requirements of the public. The figures given are for 1908 and are epitomised in the following statement:

	England	Scotland	Ireland	Wales
Total number of administrations of local anæsthetics ...	919,399	85,324	32,095	37,542
Total number of administrations of nitrous-oxide gas ...	142,872	16,281	1,941	1,407
Total number of administrations of local anæsthetics since members joined the Society...	6,106,329	652,391	122,043	204,741
Total number of administrations of gas since members joined the Society ...	1,249,167	77,995	10,458	7,078
Fatalities under nitrous-oxide gas ...	Nil	Nil	Nil	Nil
Fatalities under local anæsthetics	Nil			
Fatalities under ethyl chloride...	One			

\* Coroner exonerated member from all blame.

The petition proceeds to say that the Bill would permit 2,043 persons who are upon the Dentists' Register, who have passed no examination and been through no hospital curriculum, to administer anæsthetics, including chloroform, while it would prohibit some 1,000 members of the Incorporated Society, who have had experience and training, and given the large number of administrations above specified, from continuing to administer simple anæsthetics such as "gas" in the course of their practices. The Society therefore submitted that the Bill should not be proceeded with until after the report of the Departmental Committee on Coroners' Law, and that the prohibition and the administration of anæsthetics by unregistered practitioners would result in grave public inconvenience.

### ADULTERATION OF DISINFECTANTS.

The President of the Local Government Board was asked in the House of Commons on Wednesday by Mr. J. D. Rees whether, in view of the promise made by him in 1907 and the statement of Professor Hewlett in the recent Milroy lectures at the Royal College of Physicians, that in 1905 to 1907 28,000 gals., 57,000 gals., and 66,000 gals. of liquid were sold as disinfectant under the Privy Council Order of 1900, whereby grocers and oil and colourmen are prohibited from selling disinfectants containing more than 3 per cent. of carbolic acid (the result of which was to place a premium on adulteration and inefficiency), he would state what steps he proposed taking to remedy the evil.

Mr. C. F. Masterman, who replied, said that for the present he is not empowered to fix standards of disinfectants, and it did not appear that he could usefully take action in the matter. He added that there is little public advantage in the domestic use of disinfectants as deodorants. Where they are used to remove infection they are commonly employed under the advice of a medical officer of health or other medical man who might be trusted to order disinfectants which are efficient.

Mr. Rees asked the hon. gentleman whether he was not aware of the fact that in other Government departments a standard was enforced by administrative custom. Such an extension of the standard would be an advantage to the public health. No answer was returned.

### ROYAL COMMISSION ON VIVISECTION.

The Royal Commission which was appointed many months ago under the presidency of Viscount Selby, the late Speaker, for the purpose of inquiring into the practice of subjecting live animals to experiments is likely to be second only in the matter of longevity to the inquiry which was conducted some years ago into the question of vaccination, and which pursued its labours at intervals of more or



less duration for seven years. In regard to the Vivisection Commission, the taking of evidence was brought to a close more than a year ago, and since then a Committee of the Commission, including the Chairman, Sir William Collins, M.P., and Mr. Abel J. Ram, K.C., have been preparing a draft report dealing with certain aspects of the inquiry. Many months must elapse before the reports being drafted can be discussed and consolidated in order that the final document—or documents, as there will, of course, be minority reports presented—can be submitted to the King.

#### INTERNATIONAL OPIUM COMMISSION.

Mr. R. Laidlaw, M.P., who has just returned from Shanghai, where he was a member of the International Commission on the Opium Question, has informed our Parliamentary representative that in all probability the British delegates will in a short time consider the desirability of making a special report to the Government, apart from the general report which was signed at Shanghai in common with all the other delegates. The full text of the report, which is now being printed in Shanghai, will not reach this country for another month or so, but the resolutions which have been arrived at by the Commission have already been transmitted to the Home Government. The full report will contain the statements which have been put in by the various countries which were parties to the inquiry in regard to the laws and regulations on the subject prevailing in those countries. Mr. Laidlaw, who went out to the East *via* Siberia, has returned through America.

### The Week's Poisonings.

FOURTEEN fatalities, including seven misadventures, have been recorded from poisoning during the week. A Gateshead miner, named James T. Purdy (62), poisoned himself by taking prussic acid. Deceased, who had often "doctored dogs," bought 2 dr. of prussic acid from a chemist "to poison a dog." He had previously bought the poison for that purpose.—Eleanor Westbrook (24), nurse, Oatlands Park, committed suicide by means of prussic acid while suffering from the delusion that she had "heart-disease." Deceased said she had poisoned herself with strychnine.—Dr. Wm. Moody, medical practitioner, Manchester, broke the neck off a bottle of prussic acid while suffering from "delirium tremens," and swallowed the contents with fatal results.—Aubrey Newton, author, who had recently been released from Dartmoor Prison, committed suicide by injecting a solution of morphine (p. 619).—At Glasgow a man who had given his name as P. Gordon was found dead in bed under circumstances pointing to morphine poisoning. An empty tube, which had contained tablets of morphine sulphate, was found in his pyjamas, a full tube on the window-sill, while a third tube, containing strychnine-sulphate tablets, was discovered in his trousers-pocket. Beside him in the bed was a hypodermic syringe.—Edgar Oakden, tobaccoist, Aston, Birmingham, was found unconscious in bed. He had apparently taken a number of pills containing morphine, on account of love troubles; attempts to revive him failed, and he died shortly afterwards.—Annie K. Freemantle, the two-year-old daughter of a naval petty officer residing at Winchester, obtained a bottle of carbolic acid from the washstand in the bedroom and drank a portion of the contents with fatal results.—George Schofield (51), draughtsman, committed suicide at Hyson Green by taking oxalic acid. At the resumed inquest regarding the death of Jane G. Barrett (58), nurse, Tooting (C. & D., April 3, p. 517), the jury found that deceased "died from natural causes accelerated by accidentally taking an overdose of laudanum." Dr. Freyberger said he had come to the conclusion, from his investigation, that deceased had habitually taken laudanum for some time, and no doubt death was thereby accelerated.—A Huddersfield dyer, named Rockley Battye, died through taking an overdose of laudanum to procure sleep.—Opium taken in accidental overdose also caused the death of Wm. C. Harrison, dental surgeon, Walsall. It was stated that the fluid taken "was seven times as strong as ordinary opium or laudanum. About twenty drops . . . would have caused death."—Annie Stewart (63), a Baileston widow, swallowed a fatal dose of sedative mainly composed of laudanum. Esther Levine (73), widow, died at Shepherd's Bush through taking two tablespoonfuls of turpentine instead of her medicine, a heart-tonic containing digitalis. Her granddaughter handed deceased, who had lost her sense of smell, the wrong bottle by mistake.—Hugh Flood, Government veterinary inspector, Belfast, died through drinking ammonia in mistake for his medicine.—Annie E. Fairbrass (54) died at Canterbury from alcohol poisoning (p. 619).

## Observations and Reflections.

By "Xravser."

### The Critical Moment

in the poisons trade is upon us. How councils will interpret the extraordinary exhortation to administrative bodies to take into consideration the reasonable requirements of the public before granting licences, is now to be seen. The words have been deliberately set down in the statute by the King, Lords, and Commons, and must be taken to mean something. Quite naturally the chemists of the particular neighbourhoods direct the attention of their local rulers to them, but Borough and County Councils are apt to accept lectures on their duties with some impatience, and some gifted seer in an assembly may perceive in the pharmaceutical communication the marks of an axe to grind. These chemists are actually daring to defend the position which has been specially theirs for so long.

Cet animal est très méchant  
Quand on l'attaque il se défend.

This sentiment is undoubtedly prominent in the pioneer discussions reported last week, and has to be reckoned with. Folkestone is the one bright spot in England and Dunfermline in Scotland where the pharmaceutical view is fully supported.

### The Discussion

promised for the British Pharmaceutical Conference at Newcastle this year, to be opened by the President on the question whether the dispensing of medical prescriptions should be exclusively confined to pharmacists, is in the direction of a promising innovation. A "pharmaceutical conference" may be supposed to involve some carefully arranged discussions on pharmaceutical topics as among its most essential functions. But it is not easy to compliment the Executive Committee on its choice of a subject. It is pharmaceutical enough, and every member of the Association is capable of saying something on it. But even from the brilliant galaxy of talent which clusters round the chair at these meetings, is there any reasonable prospect of anything new being said? Or is there any likelihood of the other side being efficiently, if at all, represented? It would be asking too much, I presume, to suggest that, to make the discussion a reality, a really competent and convinced *advocatus diaboli* should be imported for the occasion.

### The National Union of Assistant Pharmacists

may become something of a power in pharmacy before long. The letters which preceded its formation were in many instances striking for their ability and tact. I did not think the Good Friday speeches reported last week reached quite as high a level. Nor do I believe that all the nine objects of the Union set forth in the adopted programme are wise. But it is not an unusual practice to exhibit things in the shop-window for effect, and not for sale. The success of the institution will depend on the judgment manifested by its first committee. Certainly the chemists' assistants of to-day include a large number of very competent men, and it is not unreasonable that they should claim the right to speak with a representative voice. It would be useful and fair, for example, that one of them, expressly delegated, should be a member of the Pharmaceutical Council. It may seem at first sight that a union of certificated chemists might acquire improper power under the law as it stands. Certain functions are theirs exclusively, and they are a limited body. But against this it has to be remembered that chemists' assistants are unlike the workmen who usually form unions. They are constantly being drafted into the employers' ranks, and have consequently to consider the interests of both sides.

SEVERAL children who were wandering in the Garw Valley on April 16 ate what they supposed to be some wild turnips. However, the roots proved to be those of the wild parsnip, *Pastinaca sativa*, which, after the first year, are poisonous. In consequence, four of the children became seriously ill, and a twelve-year old boy almost succumbed.

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**Editorial Comments.**

**South African Trade.**

At the present time few parts of the British Empire are so interesting in trade matters as the Colonies of South Africa. They form a splendid market for homeland manufacturers, and their buying powers, though temporarily impaired owing to too sanguine expectations, are latent with great potentialities. Their wealth is unfathomed and natural; their policy generally is to make the most of their great



resources, and to save time and money by importing those products of established industry which it would be foolish for them to compete with, seeing that they have at their feet, so to speak, riches which can be won while others less favoured are manufacturing the goods that they need and would lose money by the making. The proposed linking up of the Colonies into a Federation for administrative purposes lends special interest to the report on the trade of 1908, which has just been issued by the South African Statistical Bureau. It shows the imports of each colony in the Customs Union, which are followed by exports, and the amount of rebate on imports under the Preference Clause of the Customs Union Tariff is shown, while fifty pages are devoted to a general classification of British South African trade, sufficiently comprehensive to include such widely diverse subjects as "goods imported which could be manufactured in South Africa," and the "number of passengers who landed and embarked from the various ports"—an item of considerable significance, as 2,558 more passengers left than arrived, exclusive of 25,000 repatriated Chinese from the Rand. The figures relating to imports for the twelve months again indicate a shrinkage, the total being 24,438,000*l.*, or about a million and a half less than in 1907. The British Empire supplied 70.2 per cent. of imports, against 71.5 per cent. in the preceding year, the proportion obtained from foreign countries rising from 28.5 per cent. to 29.8 per cent. Exports show a considerable shrinkage in value at 45,209,000*l.*, of which forty-two and a half millions, or 94 per cent., of the total was South African produce. Of this amount gold and diamonds account for nearly thirty-seven millions, raw materials (about eight millions) making up the remainder. The imports of drugs, chemicals, and apothecaries' wares amounted to 693,559*l.*, as compared with 659,804*l.* in the preceding year. The largest item was sodium cyanide (272,104*l.*), this being followed by apothecaries' wares, 94,023*l.* (86,288*l.* in 1907). Next in order is 92,690*l.* for medicinal preparations, or 4,413*l.* less, while miscellaneous drugs and chemicals were valued at 79,296*l.* (75,660*l.* in 1907). Another important item is potassium cyanide, 63,205*l.*, as against 94,211*l.* Of opium the imports amounted to 5,442 lb., valued at 3,214*l.*, or 1,734 lb. less. We give below the imports of "drugs, chemicals, and apothecaries' wares" into the several Colonies during the past two years:

	1907 £	1908 £
Cape Colony .....	196,948	176,491
O. R. Colony .....	35,424	32,166
Natal .....	132,149	138,090
Transvaal .....	458,749	459,890
Rhodesia .....	41,686	54,898
	864,956	861,535

It would be interesting to know what proportion of the above amount is credited to Germany and the United States, but the return does not show, merely indicating that the total imports of merchandise from Germany was 2,134,261*l.*, against 1,978,574*l.* in 1907, or 8.7 per cent. of the whole imports, against 7.6 per cent. The imports from the United States were stationary at 2,008,594*l.*, or 8.2 per cent. In view of Germany's increased exports to South Africa it would appear that the rebate of 3 per cent. on the value of the goods manufactured in the British Empire has so far counted for little, and it is impossible to determine what articles have been affected. In the drug and chemical group the total amount actually returned to importers as rebates was about 10,500*l.*, this being spread over a score of articles, the largest amount being for sodium cyanide (3,363*l.*), this being followed by apothecaries' wares (2,066*l.*), medicinal pre-

parations (1,416*l.*), and "all other drugs and chemicals" (1,405*l.*). The rebate on medicinal preparations represents goods imported to the value of 47,201*l.* (46,657*l.* from the United Kingdom), whereas the total value of medicinal preparations imported into the whole of British South Africa last year was 92,690*l.*, showing that 50 per cent. was of British origin, apart from an amount of 11,098*l.*, representing medicinal preparations from the United Kingdom on which no rebate was allowed. It is difficult to believe that foreign countries supply 50 per cent. of the medicinal preparations imported into South Africa. In exports we notice that Cape Colony increased her shipments of aloes from 576,098 lb. (5,734*l.*) in 1907 to 858,799 lb. (7,941*l.*) in 1908; but in buchu there was a falling off by 47,862 lb., shipments being 243,472 lb., valued at 7,284*l.* Argol shows a decided decrease, being 117,327 lb., as against 163,316 lb., or 1,105*l.* less; and Cape wines increased by almost 3,000*l.* in value. Practically 94 per cent. of the South African produce exports came to Great Britain, gold and diamonds representing thirty-seven millions and raw materials almost eight millions.

### The Australasian Market.

MR. BENJAMIN H. MORGAN, Hon. Secretary of the Manufacturers' Association of Great Britain, has written a very useful and interesting book on the commercial conditions and outlook of Australia and New Zealand, which has been published by Eyre & Spottiswoode, Ltd. Mr. Morgan went out to the Antipodes in February 1908 and returned in July, having visited the principal centres of industrial activity. He has interviewed many commercial experts and men in authority, so that his opinions are entitled to consideration. His instructions were to report on the extent and possibilities of the Australasian markets, with a view to increasing export trade and to establishing branch factories inside the tariffs. He was also instructed to deal with the extent and condition of local industries, the nature and state of foreign competition, transport services, with special reference to shipping "rings" and "conferences," together with the operation of local tariffs and effects of preference. All these subjects and others are fully dealt with in the report, and some of Mr. Morgan's remarks thereon show where the British exporter fails to take full advantage of the markets. Australia and New Zealand he describes as greatly flourishing at the present time, and with an industrial future full of promise. He points out, however, that British trade is over-estimated, while foreign trade is larger than recorded, this being due to the Commonwealth statistics, which do not indicate the "country of origin" as distinguished from the "country of shipment." He deals with the falling-off in our proportion of import trade, and what he considers its causes, and discusses Australasia as a field for industrial enterprise, the conditions of labour, etc., while there are separate chapters dealing with the principal branches of commerce. The shipping question is adequately dealt with, numerous instances being adduced as to how the ring operates against exporters—*e.g.*, he finds that German firms are making headway in the New Zealand market in drugs and chemicals through the lower rates which are obtainable from German ports. An importing firm informed him that "goods are shipped from Hamburg at 46*s.* 6*d.* per ton, whereas goods from England in the same bottom have to pay 60*s.*" Apart from a special chapter on photographic apparatus and supplies, which we dealt with on January 23, Mr. Morgan tells little about the drug and chemical trade beyond the fact that wholesale druggists have complained to him that American houses put up their goods with more neatness and

regularity in regard to get-up and labels than is done by English houses. Mr. Morgan is apparently responsible for this assertion, which has come to us from several quarters recently, and it would be interesting to know the exact grounds upon which the statement is based. In the matter of counter-specialties, perfumery, and toilet-preparations, English houses have been for years noted for their elegant finish of packages, and we think the least that a person in Mr. Morgan's position should have done before giving publicity to a statement that American houses beat English was to look into the matter more intimately. That was all the more necessary owing to the fact that he represented British manufacturers. We have no objection to the truth being told, and it is already ingrained into our commercial constitution that Britishers may without risk tell other Britishers how much better other countries do business, but there must be some limit to this sort of counter-irritation. During the past fifteen years, according to Mr. Morgan, the proportion of British trade to the whole of Australia's imports has declined by 10 per cent., and that of foreign countries has increased by 8 per cent., and the reason he gives for this is "dumping." But as the tale proceeds other causes are mentioned. Thus, Mr. Morgan believes the home merchant is a diminishing factor in export trade, as commercial conditions are rapidly changing by bringing manufacturers into more direct touch with consumers, thus dispensing with the services of the middleman. This change is attributed to the competition of foreign nations, in so far as they get to know exactly what the requirements of the Colonial markets are, and to do this they go behind existing arrangements, straight to the distributors or consumers, giving them prices which middlemen cannot. Substantially Mr. Morgan says the time has come when the manufacturer must more or less personally work the market in co-operation with the merchant-houses. German and American houses have gone as direct to the retailer as is possible, and this has given them the distinct advantages of being able, through personal knowledge, more thoroughly to understand the requirements of the market. Many British firms have hesitated to send out representatives, in the fear of disturbing the relations they have had with these London houses or branches, and so they have been dependent on second-hand sources of information. Another point is that the German and American houses have built up their export trade by arranging through bookings to Australasian ports. Many of them quote "c.i.f. Australian ports," whereas many British firms will only quote "f.o.b. British ports." On this side it is difficult to get "through rates" owing to the opposition of the shipping companies and the home merchant, who, of course, object to the manufacturer being brought into direct touch with the retailer and consumer in overseas markets. These are points which therefore modify considerably the statement in regard to dumping. To what extent the several suggestions apply to the chemical and drug trades does not appear, but so far as they are applicable the firms and manufacturers at home who read this will no doubt consider and apply them where necessary.

### What is a "Medicated Wine"?

THE "Darlington Star" reports the confirmation of wine-licences granted at Stockton Brewster Sessions to two chemists, and mentions that the Magistrates' Clerk (Mr. T. H. Faber) was asked to define what a medicated wine was, but he declined to commit himself, expressing the opinion that a chemist should know better than he did. "Seeing that there appears to be some doubt as to what

really should be included in the category of medicated wines," the "D.S." asks, "would it not be as well for the chemists' own Society, which looks after their interests, to obtain some authoritative ruling on the question, which would settle the matter?" Reference to the *C. & D. Diary*, 1909, p. 231, gives the answer, which in brief is:

Medicated wines, in the opinion of the Board of Inland Revenue, are excisable wines so medicated as to be unfit for use as a beverage. They are vin. antimon. B.P., vin. ipecac. B.P., vin. ferri (if containing the equivalent of 1 grain of metallic iron per fl. oz.), vin. pepsini (if containing pepsin. 320 gr. and acid. hydrochlor. 2 dr. in 20 oz.), coca-wine (if containing  $\frac{1}{2}$  grain of cocaine per fl. oz. and sufficient of the bitter principle of the coca-leaves), and vin. quininæ B.P.

Applicants for wine-licences have got into the habit of saying that they want the licence for the sale of medicated wines only; but what they mean is wines not sufficiently medicated as to be nasty to taste. These contain medicaments, are taken in measured doses, and are used medicinally in many instances, but owing to the fact that the sale of medicines containing alcohol is exempt from the licence requirement only when they are prepared from spirits, the sale of such as are made with wine technically requires a licence. This paragraph may be a sufficient explanation for magistrates and magistrates' clerks.

### The Anæsthetics Bill.

WE briefly referred last week (p. 612) to the circular issued by the British Dental Association regarding the Anæsthetics Bill, as to which full particulars have been given in the *C. & D.* What the dentists want is reasonable enough to a certain extent—viz., continued ability to administer anæsthetics to their patients, both for dentists whose names are on the register, and those who may hereafter be. But more than this is asked. The circular says:

The proposed measure . . . would of itself defeat its own object, because it would inevitably lead to the exclusive use of local anæsthetics. Most preparations for the production of local anæsthesia contain cocaine, and the use of this drug is attended by considerable risk because of its variable effect on different persons. If the object of the Bill is to be attained, it is essential that local anæsthetics should be included with general anæsthetics in the prohibition enjoined by the Bill.

This is turning the Bill to dentists' advantage with a vengeance, and is not a proposition that we can support. If carried into law it would restrict the use of methyl and ethyl chloride, and even the application of carbolic colloid might be dragged in by some extremists. We think it necessary, therefore, to warn our readers in regard to these latest proposals, with a view to close watching of the Bill, as to which further information is given this week. There is little chance of it passing, considering that the Government has taken steps preliminary to legislation on the subject; but that is no reason why those whose interests may be harmed by the proposals should not keep their eyes open.

### Photographic Chemistry.

PHOTOGRAPHY involves a series of chemical reactions, and it is not surprising therefore to know that photography is much more likely to be successful if the principles underlying it are understood. The first dealers in photographic requirements were chemists, and to-day the majority of photographic dealers are in business as pharmacists. There seems to be a tendency to divorce the art of photography from the science of the subject. In a reference-book for photographers which recently came under our notice the chemical side of the work was evidently compiled by one



imperfectly acquainted with chemistry. Ether and sulphuric ether were treated as two distinct substances, whilst bleaching powder and calcium chloride were taken to be synonymous. Another instance of indifference to chemistry is supplied by the current issue of a photographic journal which appeals to dealers. The note in question, which deals with the Poisons and Pharmacy Act, is as follows:

Some rumours seem to be flying about to the effect that ammonium sulphocyanide is a poison which may only be sold by chemists. . . . Upon investigating the subject, we found some dealers had been informed "on good authority" that dealers in Ireland had been prosecuted and fined for selling ammonium sulphocyanide. Now, while it is quite true that a separate schedule under the Poisons Act is in force for Ireland and remains unaltered by the new Bill, it is equally true that ammonium sulphocyanide may still be sold by Irish dealers. The fact is that, under the Act previous to the one passed last year, three photographic dealers in Dublin were prosecuted for selling sulphocyanide of potassium and were fined five pounds each. Our readers will at once note the difference between ammonium sulphocyanide, which is neither a poison nor a cyanide, and from which cyanide cannot be obtained, as Mr. Lockyer pointed out in his letter, and sulphocyanide of potassium, which, under certain conditions, may become cyanide of potassium, a most deadly poison. We trust this further explanatory note will now allay the doubts and fears of the most scrupulous dealers, and we can assure readers that, before making our definite statement as to the dealer's position, we consulted the very highest authorities, knowing full well what disastrous results might follow a misreading of the Act.

As a matter of fact the Irish prosecutions referred to were for selling sulphocyanide of ammonium and oxalate of potassium. It is perhaps hardly necessary in this journal to point out that the distinction drawn between the poisonous properties of the two sulphocyanides is unwarranted, and further, that the chemical reasons given for the supposed difference are erroneous.

#### Local Associations, Beware!

Prize-giving at whist-drives may be a breach of the Lottery Act. A legal authority said to a "Daily Express" representative:

Wagering amounts to gaming, and the thing that constitutes wagering is the chance of losing as well as of winning. Applying this to the whist-drive, it is clear that if those who are taking part in the drive subscribe for or in some way or other provide the prizes to be won, then it is certain that while some of the players will win, others are bound to lose. In other words, they are wagering—gaming. But if the players do not provide the prizes, or if those who provide them are not permitted to win them, then it is equally certain that the whist-drive so conducted is not wagering or gaming, and is consequently a perfectly legal pursuit.

We hope that, so far as Chemists' Associations are concerned, this does not work out into another blow at wholesale houses, who too frequently, we are afraid, are fallen back on when such circumstances arise.

#### Excelsior et Qui Bono.

The advocates of raising the pharmacist's standard by increased scientific education will be interested in hearing the views on this subject propounded by Dr. R. Firbas, President of the Austrian Pharmaceutical Society, in a recent speech. He is in favour of increasing the length of University study in order to place the pharmacist in a position to follow the rapid advances in science, especially with regard to the increased requirements of the Pharmacopœia, and thinks it possible that in time he may aspire to assuming the title of "doctor in pharmacy." But in his opinion this would mean little material difference in his actual position. He says the pharmacist will then hold a higher academic degree, but in the eyes of the masses he will still remain a tradesman. As by that time the liberty to exercise the profession will be introduced, he will per-

force be a tradesman and a slave of his business, as he will have to fight with the want of trained employés and all those drawbacks which to-day exist in countries blessed with unrestricted exercise of pharmacy.

#### "Chemistry for Girls."

This is the title given by the "Daily Express" to an article offering free training in pharmacy for a girl—i.e., a free course of instruction for a period not exceeding one year and 1½. a week for living expenses. The award is to be made on the result of a coupon vote. Miss Margaret E. Buchanan, President of the Association of women Pharmacists, supplements the announcement with an article on pharmacy for women, which begins with these three "pictures":

A fresh, bright woman's face, clean overall, and ready hands—such is the glimpse I get through the pigeon-hole as the chemist in charge of the dispensary at the — Hospital hands out quickly to each patient his or her medicine, generally with a word of explanation as to how it should be taken, or of caution that Mrs. Jones must put it out of Tommy's way or dire consequences may ensue.

Another picture. A quiet country pharmacy and a little lady busily employed dispensing for the neighbouring doctors, but free to come forward and supply a customer with an application for a burn, a couple of seidlitz powders, or a packet of photographic plates; ready to give you suggestions about developers should you be of the confraternity which carries a camera, or as to the quickest means of ridding yourself of that persistent earache or troublesome chilblain.

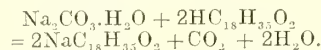
Still another glimpse. A large and well-equipped laboratory, balances, crucibles, flasks, combustion-furnace, and all the other necessities of delicate investigation, and an earnest, patient face bending over a lengthy distillation or some elaborate calculation.

Prettily said! Miss Buchanan loves the calling and makes it almost too alluring for girls, as she holds out the hope that "the conscientious and capable worker will never be at a loss for work, a first post of from 75l. to 90l. a year being usual, rising later to 100l. or 150l. Perseverance, tact, and energy are needed; pharmacy is not a business for one who wants an easy time, or who has no initiative, nor for those who merely wish to fill an empty year or two of life."

## Modern Skin-creams.

#### IV.—Sodium-stearate Type.

THE basis of this type is sodium stearate, prepared by the interaction of stearic acid and sodium carbonate. Sodium stearate is the main constituent of ordinary soap, but the advantage of making the sodium stearate extemporaneously is that a more finely divided mass is obtained by the action of the carbon dioxide. The reaction is as follows:



Stearic acid, or cetyl acetic acid, occurs as a glyceride in most hard fats, where it is associated with similar esters of palmitic and oleic acids. The glyceride of stearic acid is known as stearin, but in commerce the term "stearin" is applied to stearic acid, which is used on a large scale in the manufacture of candles. Stearin obtained from tallow by removal of the fluid olein by pressure was the form first employed in candle-making, but the more easily prepared stearic acid was afterwards introduced and answered the purpose better than stearin. Commercial stearic acid is made by saponifying suet, tallow, or shea butter with lime and then treating with sulphuric acid to liberate the fatty acids. The oleic acid is then removed by pressure. There are many modifications of this method. In one well-known process the stearic acid is recovered by distillation. Stearic acid comprises 46 per cent. of the fatty acids of tallow. The "chemically-pure" acid is crystallised from alcohol and occurs in lustrous tables. Pure stearic acid is official in the

United States Pharmacopœia, where it is employed in the manufacture of glycerin suppositories. It is, in fact, this process which has been adapted as the basis of the sodium-stearate skin-creams. Although stearic acid is used in these creams, stearin, if obtainable, can be employed. Glycerin is always added in the process of making the creams, so that the small additional amount of liberated glycerin is scarcely a disadvantage.

Sodium carbonate mono-hydrate is the proper form of sodium carbonate to employ. It is known as crystal soda, "Crescent" brand, and is largely used as the basis of bath-salts and water-softeners. The sodium carbonate which is sold for photographic purposes contains ten molecules of water, and as the firmness of the skin-cream depends upon the amount of water present, this form should not be employed. If crystal soda is not readily obtainable, exsiccated sodium carbonate of the British Pharmacopœia, which is nearly free from water, may be substituted. Potassium stearate is preferred by some pharmacists, but it is more deliquescent and less stable than the sodium salt. It is prepared by the use of potassium carbonate.

A disadvantage of this type of skin-cream is the readiness with which the mass "falls," or shrinks, on keeping. To overcome this, tragacanth, agar-agar, or a similar mucilaginous body is used in one method, the other way being to add a small amount of grease, such as oil of theobroma, liquid paraffin, almond oil, or wool-fat, the idea in both cases being to coat the sodium-stearate particles and keep them from contact with the air. A trace of castor oil is sometimes added to this product, but in this case the intention is to obtain a pearly appearance. Hydrogen peroxide as an ingredient is used for its bleaching effect on the skin. In its place other peroxides and perborates could be employed.

#### Chicago Cream.

Stearic acid	240 gr.
Sodium carbonate	155 gr.
Powdered borax	30 gr.
Glycerin	1 oz.
Oil of ylang ylang	20 min.
Heliotropin	5 gr.
Otto of rose	5 min.
Alcohol	1 oz.
Water	8 oz.

Place the stearic acid, sodium carbonate, borax, glycerin, and water in a water-bath and heat until effervescence ceases. Remove from the source of heat and stir at intervals until the mixture begins to set. Then add the perfumes dissolved in the alcohol and heat up with an egg-whisk. If the mass is not smooth enough it should be beaten up again on the following day.

#### Hamamelis Cream.

Stearic acid	2½ oz.
Sodium carbonate	3 dr.
Glycerin	3 dr.
Solution of hamamelis	
B.P.	12 oz.
Water to make	25 oz.

Place the stearic acid in a water-bath and when it is melted add the sodium carbonate and glycerin dissolved in 2 oz. of hot water. Heat with constant stirring until effervescence ceases, remove from the source of heat, add water to make the product weigh 13 oz., and finally the solution of hamamelis. Stir till smooth, heating a little is necessary, and beat to a foam in a warm mortar.

#### Stanislaus's Skin-cream.

Stearic acid	30 grams
Oil of theobroma	5 grams
Sodium carbonate	20 grams
Borax	5 grams
Glycerin	25 c.c.
Terpineol	2 c.c.
Oil of bitter almonds	1 min.
Otto of rose	10 min.
Alcohol	30 c.c.
Water	400 c.c.
Mucilage of tragacanth	100 c.c.

Place the ingredients, except the perfumes and alcohol, in a water-bath and heat until effervescence ceases. Remove from the heat, and when the mixture begins to harden add the perfume dissolved in the alcohol and well mix. Allow it to harden, then warm and beat vigorously until a fluffy cream results.

#### Caldwell's Cream.

Stearic acid	12 oz.
Glycerin	12 oz.
Water	24 oz.
Potassium carbonate	4 dr.
Borax	1½ dr.
Powdered tragacanth	4 dr.
Perfume	q.s.

Place the glycerin in a water-bath, heat to 156° F., and add the tragacanth previously rubbed with a little alcohol. Next add the stearic acid, continue the heat until the acid is melted, and add the borax and potassium carbonate, dissolved in hot water. Stir until the mass begins to set, and add the perfume.

#### Peroxide Cream.

Stearic acid	3 oz.
Sodium carbonate	2½ dr.
Anhydrous wool-fat	4 dr.
Glycerin	3 oz.
Borax	1 dr.
Solution of hydrogen peroxide	4 dr.
Water	16 oz.
Perfume	q.s.

The hydrogen peroxide is added when the mass, prepared as in the previous recipe, is setting.

#### Rolling Cream.

Stearic acid	4 oz.
Glycerin	4 oz.
Water	16 oz.
Potassium carbonate	1 dr.
Boric acid	1 oz.
Casein, soluble	1 oz.
Powdered tragacanth	15 gr.
China clay	3 oz.
Carmine solution	q.s.
Perfume	q.s.
This is used as a massage cream.	

## Optical Observations.

By A Chemist-Optician.

### Beware of Ciliary Spasm.

Mr. Arthur C. Roper, F.R.C.S.Ed., read a paper before the Devon and Exeter Medico-Chirurgical Society on "Common Mistakes in Ophthalmic Practice," in which some points interesting to sight-testing were mentioned. Mistakes in refraction cases make up the largest proportion of those made in eye-practice. Particular stress is laid upon the fact that ciliary spasm in a hyperope is apt to lead to prescribing concave lenses. The following rule is given:

Always be exceedingly chary of ordering low concave glasses for anyone under twenty-five years of age, unless you have been able to ascertain definitely by the use of atropine that it is not a case of hypermetropia with ciliary spasm.

The chemist-optician accustomed to employing the "fogging" system has at his command a superior method to that involved in the use of atropine.

### Squint.

"For all practical purposes squint in growing children is always the result of refractive error," said Mr. Roper at a later stage of his paper. The exceptions, which are generally obvious, are so few as to be negligible. The vast majority of these cases of squint are convergent, and when they are convergent they are associated with hyperopia. When divergent they are usually due to myopia, and not infrequently to something which is rendering the diverging eye useless, and so depriving it of the normal stimulus to move concomitantly with the other eye.

### Donders's Theory

of the etiology and physiology of concomitant converging squint is outlined by Mr. Roper, the following being the chief points:

1. There is hyperopia.
2. The hyperopic eye requires more accommodating power to focus objects on the retina than the normal or myopic eye.
3. Convergence of the eyes is always associated with focussing. The normal eye at rest is accurately focussed for distant vision. When objects nearer the eyes are looked at the internal recti converge the eyes so that they look at the desired point. Focussing—that is, increasing the convexity of the lens—also becomes necessary for a clear image to be projected upon the retina. Thus, convergence and accommodation are always associated, and so it comes about that convergence stimulates accommodation and increases it.
4. A hyperope of 2 dioptres has to be always accommodating to that amount to see distant objects clearly, and usually the ciliary muscle, which does the accommodating, manages it all right; but if the child gets some debilitating disease, or if anything occurs to weaken its ciliary muscles, convergence is brought into play to stimulate accommodation. Suppose, for example, that this hyperope wants a clear image of an object 30 ft. away. He converges to a point, say, 20 ft. away, and so excites the required amount of focussing. But if both eyes converge to 20 ft. neither will be directed towards the object at 30 ft.; and so it comes about that one eye is steadied by its own external rectus so that it looks at the desired object, while the other eye does convergence for both and so comes to be looking at only 10 ft. There you have the squint. One eye, the better one, is fixing the object to be seen, and the other is providing the necessary stimulus for accommodation by excessive convergence. It is obvious that the child will, the first time he performs this manœuvre, see double, and so it soon comes about that the image of the converging or squinting eye is obliterated, and thus you get in most cases—

5. Amblyopia or impaired vision in the squinting eye. Some authorities think that the amblyopia is the predisposing cause of the squint, instead of the squint causing the amblyopia. Amblyopia means loss of sight, and it also means, if it is present to any important extent, loss of binocular or stereoscopic vision.

All the treatment that is required at an early stage is correction of the hyperopia by suitable glasses, and an operation for concomitant squint ought never to become necessary.

### Medical Opticians

A correspondent of the "British Medical Journal" suggests that medical men should take up sight-testing. Many patients, he says, can ill afford guinea fees and yet



would not of their own accord go to hospital if their own doctor would deal with them at, say, a half-guinea fee. Instead of doing so he sends them to the eye hospital or to the optologist if they declare their inability to afford the usual consultant's fees. If at the eye hospital they are handed over to a nurse they probably prefer the sumptuous room of the optologist, who, in spite of the free test, seems to be able to make a good profit out of the glasses he prescribes and sells to them. It really almost seems as if the profession were the culprit to a large extent, and especially the general practitioner.

Seeing that refraction work has to deal in most cases with a deformity rather than a disease of the eye, one does not quite see why the general practitioner should not make himself competent—at least, as competent as the optologist—to take many of these cases in hand. . . . Governments in this free country are so apathetic, where only life or limb are concerned, about protecting citizens against themselves or their deceivers, that it is hardly likely the optologist will be restrained. He is more likely to be recognised as a benefactor of the people.

## Veterinary Notes.

By A M.R.C.V.S.

### Colic.

It frequently occurs that cases of colic, especially when accompanied by flatulence, are not readily amenable to the usual colic-draught, and recourse must be had to other remedies. In such cases the following powder is unequalled when given after an ordinary draught (see "Veterinary Counter-practice," pp. 40, 380) :

Sodii hyposulphitis	...	...	5j. ad 5ij.
Ammonii carbonatis	...	...	5ij.
Pulv. nucis vomicæ	...	...	3ss.
Pulv. zingiberis	...	...	5ij.
Pulv. gentianæ	...	...	5ij.

### M.

The above dose can be given every two hours, or even oftener, if required. The powders are also of great benefit when given after physic-balls or oil, owing to their action in increasing peristalsis.

### Constipation in Lambs.

Constipation is often met with in lambs two or three days old. The chief cause is the deficiency of the mother's milk, but less frequently it is due to the retention of the meconium, or first faeces. The condition of the mother must accordingly be taken into account, and mild purgatives given, as also changes made in pasturage or food if considered necessary. In the treatment of the lamb the finger should be inserted into the rectum and mild laxative enemata given at intervals. Doses of oil, with or without stimulants, should be given, *per os*, until there are signs of improvement. When matters are progressing favourably repeated doses of *spt. ætheris nitrosi* should be given in mucilage or gruel for a few days.

### Dropsy.

Farmers and flockmasters are in the habit at this season, when turnips are getting scarce, of scattering defective ones on the leas for the sheep to eat rather than consign them to the manure-heap. This practice, by which the animals consume a proportion of decomposed roots, causes enormous loss of life, since it is responsible for over 90 per cent. of the cases of dropsy in sheep. The other cause of this complaint, in addition to bad or deficient food, is exposure to cold or wet weather for a lengthened period without adequate shelter. The symptoms of dropsy are the same as those of "rot" or "fluke"—in fact, these ailments are frequently mistaken for one another, especially when the swelling appears between the jaws and the abdomen is greatly distended or "pot-bellied." A safe and sure cure to prescribe on first sight is *ferri sulphas*, in 3ss. to 5j. doses, along with linseed tea, milk, and eggs. When dropsy is definitely diagnosed and distinctly pronounced the only addition to the treatment just given is removal to warmer quarters.

## Photographic Notes.

(By a Pharmaceutical Camerist.)

### Developing Fixed Plates.

DR. NEUHAUSS recommends the following as a developer for plates that have been previously fixed :

Ammonium sulphocyanide	...	24	grams
Silver nitrate	...	4	grams
Sodium sulphite (crystals)	...	24	grams
Sodium thiosulphate	...	5	grams
Potassium bromide (10-per-cent. solution)	...	6	drops
Distilled water	...	100	c.c.

For development take 6 c.c. of this mixture, dilute with 54 c.c. of distilled water, and add 2 c.c. of rodinal. The solution should be quite bright; if at all turbid it should be filtered. Development is preferably carried out in an upright grooved tank, and takes about twelve hours. All that is necessary afterwards is a thorough wash.

### Stains on Prints.

A SHORT time ago "L'Echo Photographique" gave the following methods for removing various stains and markings from prints, etc. :

*Pyrogallie Acid* stains are removed by applying a 1-in-20 solution of potassium permanganate, rinsing in water, and treating with a 10-per-cent. solution of sodium bisulphite.

*Silver Nitrate*.—Use any ordinary reducer (such as Farmer's or bleaching-powder solution) followed by hypo.

*Rust or other Iron Stains*.—Treat with dilute hydrochloric or sulphuric acid, afterwards washing with water made slightly alkaline with soda.

*Ink*.—Treat as for pyrogallie acid.

*Printers' Ink*.—Rub well with olive oil and follow with benzene.

*Resin or Varnish Stains*.—Use oil of turpentine or benzene.

*Fly Spots* are removed by washing with a piece of cotton wool soaked in an alcoholic solution of soap.

### Ammonium Hyposulphite for Fixing.

SOME time ago much was heard of the advantages of using the ammonium hyposulphite for fixing purposes in place of the sodium salt. A patent was taken out by the Actien Gesellschaft für Anilin Fabrikation for its use, and in their specification the patentees say that the use of a pure salt is not necessary, "but sodium hyposulphite may be dissolved in water to form a fixing-bath and then a suitable proportion of an ammonium salt added—such as, for instance, ammonium chloride or ammonium sulphate." While the proportions of the two salts should be regulated so as to produce substantially a fixing-bath of ammonium hyposulphite, an excess of either one or the other would not be injurious. Later experiments by various workers have failed to substantiate the claims of improvement, and Messrs. Lumière and Seyewetz have recently come to the conclusion that the use of ammonium compounds should be discarded, as any small benefit accruing from their use is more than balanced by the occasional formation of double salts of unstable character.

### The Persulphate Reducer.

A METHOD of preparing a permanent solution of ammonium persulphate has still to be found. Many suggestions have been made from time to time, but none seems to be quite satisfactory. The formula of Mr. A. W. Bennett, which contains sodium sulphite and sulphuric acid, at first found many supporters, but seems to have now lost favour. Commenting on the matter recently in "Das Atelier," Professor Namias and Adolphe Daschiero stated that they found a simple solution of 5 or 2½ per cent. of the persulphate to keep better than either an acid or an alkaline solution. The solution, if made with distilled water and stored in the dark, will keep good for about two months, while solutions made with the addition of sodium sulphite and sulphuric acid deteriorated very much more rapidly. The addition of some solvent of the silver salts—such as, for instance, ammonium sulphocyanide—appears to be theoretically advisable; but Namias found that although it certainly exerted a favourable action when freshly prepared, it immediately sets up a reducing action on the persulphate, which action continues until the whole of the salt is reduced.

## New Books.

These notes do not necessarily exclude subsequent reviews of the works. Any of these books printed in Great Britain can be supplied, at the published price, to readers of this journal on application (with remittance) to the Publisher of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Barclay, John. *Southalls' Organic Materia Medica*. A handbook treating of the more important of the animal and vegetable drugs made use of in medicine, including the whole of those contained in the British Pharmacopœia. Revised and enlarged by E. W. Mann. 8½×7. Pp. xx+376. 7s. 6d. (J. & A. Churchill.) [This is the seventh edition, and a preliminary glance over it shows a number of improvements which will be dealt with later.]

Crinon, C. *Recueil des Médicaments Nouveaux et de quelques Médications Nouvelles*. 6¼×4. Pp. 436. 4f. (Vigot, 23 Place de l'École de Médecine, Paris.) [This annual supplies a ready means of referring for information regarding new remedies, the particulars given being chiefly therapeutical and posological. The "Recueil" also includes a number of drugs which are not mentioned in the French Codex, such as apiol, lobelia, and podophyllin, and some old medicaments whose properties have been re-investigated.]

Dieterich, Dr. Karl. *Neues Pharmaceutisches Manual*, von Eugen Dieterich. Zehnte vermehrte Auflage. 10×7. Pp. iv+796. 15m. (Julius Springer, Berlin.) [This tenth edition of a popular German equivalent to "Pharmaceutical Formulas" is freely illustrated, and has been brought up to date.]

Drogisten-Jahrbuch. *Taschenkalender*, 1909. 7½×4½. Pp. 184. (Drogisten Zeitung, Leipzig.) [The book commences with month calendars for 1909 to 1912, following are the diary pages, two lines to each date. Week and term calendars, address, and account pages are also included, and the literary matter covers the laws in Germany relating to the traffic in medicines and the sale of poisons. The regulations relating to food-stuffs are dealt with next, as also general business transactions. A chapter on photography and a collection of formulae prelude the various tables, which include alcohol and alcohol dilution tables, conversion of Baumé degrees, strength of soda lye, ammonia, and acids from the specific gravity of the solution, money-conversion table, and freezing mixtures. Postal information and advertisements conclude the work.]

Emerson, E. R. *Beverages, Past and Present*. 2 vols. 8vo. 2ls. net. (Putnam.)

Emery, H. C. *Company Management*. A manual for the daily use of directors, secretaries, and others in the formation and management of joint-stock companies under the Companies (Consolidation) Act, 1908, with model forms, references to leading cases, and notes on the Limited Partnerships Act, 1907, with a copious index. 8×5½. Pp. x+278. 5s. net. (London: E. F. Wilson.) [Divided into fourteen parts, the subject being systematically dealt with as follows: Existing joint-stock companies; formation of companies; allotment; change of name; general meetings; mortgages and charges; arbitration; private companies; penalties; winding up by the Court; reconstruction; Limited Partnership Act; provisions relating to Scotland; and schedules. We have found the book sound and of service. It should be useful to all business men who have to do with company matters.]

Hager's *Handbuch der Pharmaceutischen Praxis*. Bearbeitet und Herausgegeben von W. Lenz (Berlin) und A. Arends (Chemnitz). 10×7. Pp. xii+820. Paper covers, 15m.; bound, 17.50m. (Julius Springer, Berlin.) [This volume supplements the revised edition published in 1900. "Hager" is one of the best existing books of reference for pharmacists. The new volume is quite in the spirit of the old. The arrangement is the same, and Italian synonyms are now inserted, together with the French and English. The newer chemical products and new reactions for the same, drugs and varieties of drugs that have come into prominence of late years, new formulae and new specialities—all find a place. On serum and serotherapy there are fifteen pages, and the pages dealing with sterilisation and the apparatus therein employed are useful.]

Mees, C. E. K. *The Photography of Coloured Objects*. 8½×5½. Pp. 69. (Wratten & Wainwright, Croydon.) [Dr. Mees, who is a recognised authority on photography of colour, deals with the subject in the following chapters: (1) Nature of colour; (2) sensitiveness to coloured light of the eye and photographic plates; (3) filters and screens; (4) rendering of colour contrasts; (5) portraiture; (6) photography of coloured objects for reproduction; (7) landscape photography; (8) tri-colour photography.]

Metchnikoff, E. *Notes on Sour Milk and other Methods of Administering Selected Lactic Germs in Intestinal Bacterio-Therapy*. Twenty-page pamphlet. 1s. (Bale, Sons & Danielsson, Ltd., Great Titchfield Street, London, W.) [This is a translation of the remarks which Professor Metchnikoff addressed to the Congress on Old Age, and which have attracted so much attention in this country. It is also stated in the preface that this is a chapter of a book which the author has in preparation. The pamphlet is an interesting one.]

Oesterle, Dr. O. A. *Grundriss der Pharmakochemie*. 9½×6½. Pp. xiv+562. 17.50m. (Gebrüder Borntraeger, Berlin.) [This text-book, by Professor Oesterle, of Berne University, is an exhaustive treatise on the chemistry of certain drugs, divided into five parts—(1) deals with alkaloid-containing drugs, (2) deals with drugs which owe their activity to volatile constituents, (3) deals with glucoside-containing drugs, (4) deals with drugs peculiar on account of colour constituents or colour-producing bodies, and (5) deals with tannin-containing drugs. The treatise is characterised by orderly arrangement, clear and concise diction, copious references, constitutional formulae of definite principles, and consistent endeavour to present the salient facts regarding the chemistry of the drugs dealt with.]

Reid, James W. *The Companies Acts*. The important changes made by the Acts of 1900 and 1907 (now consolidated in the Act of 1908) clearly stated for the use of business men. 7×4½. xii+131 pp. 2s. 6d. net. (Edinburgh Wilson.)

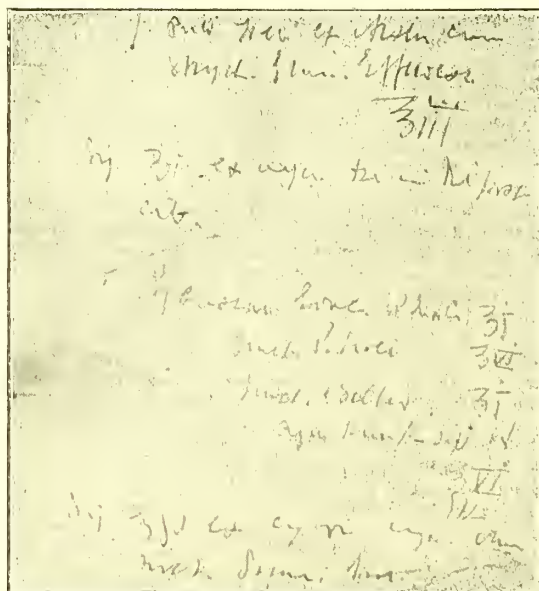
*The Medical Annual: A Year-book of Treatment and Practitioner's Index*, 1909. 8½×5½. Pp. 1,008. 8s. 6d. net. (Simpkin.)

## Prescription Problem.

THE facsimile of a German prescription printed in our issue of March 27 has proved too much for those who have been accustomed to send in postcards. Not a single British solution of the problem has been received, and none of the postcards from abroad are correct, so no prize can be awarded on this occasion. The prescription came from the Grande Pharmacie Internationale, Davos-Platz, and the correct interpretation is:

Inf. rad. Ipecac.  
1,0 : 120,0  
Liq. amon. anisat.  
qts xxxxx  
Salpyrin 3,5  
Ext. Hyoscyami 0,35  
Syr. Althææ ad 150.  
M ft mixt.  
Sig. Umschütteln  
Istündlich 1 Essloffel.

The next problem is easier, and postcard transcriptions of it will be received up to Thursday, April 29. The prizes offered on March 27 will be appropriated to this competition:





## C. & D. Diary, 1909.

### Report on the Colonial Section of the Postcard Competition.

THE verdict of our Colonial and foreign *confreres* on the *C. & D. Diary* coupon competition in regard to the five questions submitted is practically the same as that of the home competitors. Messrs. Schimmel & Co.'s advertisement (pp. 276-279) is considered by subscribers abroad to be by far the most interesting. Opinion, however, is more divided as to which is the most artistic advertisement, but Burroughs Wellcome & Co. (pp. 145-149) are on top. Bernard Slack's (p. 94) has been voted as the most original, but the weird advertisement of Arfie, Ltd. (p. 324), is a close second. Allen & Hanburys' advertisement (pp. 160-163) is considered "the best," the next in order of merit being Burroughs, Wellcome & Co. and Stevenson & Howell, Ltd. Much diversity of opinion exists as to a firm not advertising whose advertisement would be useful. The majority plump for the "Vinolia" preparations, but quite a number would like to see Messrs. F. Stearns & Co.'s goods advertised, and others in less proportion vote for Ellman, Eno, May, Roberts & Co., Bauer & Black, Mace & Haldane, Colgate's Soap, F. E. Becker & Co., Doan's Backache Pills, R. Ferber & Co., Gillette Safety Razor, Horner & Sons, Ilford Ltd., J. G. Ingram & Son, Marshalls' Ltd., Matthews & Wilson, Midland Camera Co., Nitsche & Günther, H. Silverlock, Scott & Bowne, Taylor & Colledge, Seigel's Syrup, Valva Lozenges, Forman, Odol, Roger & Gallet, and Californian Fig Syrup.

### The Prize-winners.

None of the competitors answered the whole five questions correctly, and only three have got four right. We therefore award 10s. each to

MR. G. S. WILKINS, Selukwe, Rhodesia.

MR. NAPIER BINGHAM, c/o Mr. H. M. Bennett, High Street, Dannevirke, New Zealand.

MR. CHARLES R. J. GLOVER, 165 Gilles Street, Adelaide, South Australia.

The following eight answered three questions correctly, and to them we award 5s. each:

Mr. Lennox Tice, 819 Second Street, Edmonton, Alberta, Canada.

Mr. Ernest A. Clark, chemist, Waihi, New Zealand.

Mr. Thos. Russell, chemist, Upper Symonds Street, Auckland, N.Z.

Mr. B. A. Atwell, c/o the Australian Drug Co., Ltd., Sydney, N.S.W.

Mr. J. W. Case, 140 Wickham Street, Brisbane, Queensland.

Mr. L. A. Wilkinson, Gympie, Queensland.

Mr. C. Sykes, chemist, Bulli, New South Wales.

Mr. A. A. Simpson, Kensington, Sydney, N.S.W.

### "SAYING RECALLED."

Card 2 of the coupon asked our readers to mention the happiest quotation in the interleaved pages of our *Diary*, and the one selected by the majority of the competitors is the same as in the home section, viz.:

"A chemist cannot have too much knowledge of his business."—*Sir Edward Evans*.

Others believe

"The chemist must always have his mind concentrated on his work, his head clear and his hand steady."—*James Reid*.

Three competitors are entitled to recognition under this heading, and to each of them we award 5s., viz.:

MR. H. B. TILDEN, c/o Messrs. E. Plomer & Co., Lahore, India.

MR. J. W. CASE, J.P., 140 Wickham Street, Brisbane, Queensland.

MR. W. E. DONALDSON, c/o Mr. J. E. Donaldson, Brisbane, Queensland.

**BOGUS PAPERS.**—A writer in "The Times," commenting upon Professor Miers' remarks at the Chemical Society's dinner (*C. & D.*, April 3, p. 527), recalls the fact that Lord Kelvin and Professor Tait once distributed proofs of a bogus paper among scientific friends, with the result that some of them detected that the paper was pure nonsense.

## Agri-Horticultural Poisons.

### Notices of Application

for licences under Section 2 of the Poisons and Pharmacy Act have been lodged with the local authorities named. The dates appended in parentheses are those of the advertisements, which have to be published before the applications are lodged. The licence is not to be granted until fourteen days after the receipt of the application:

ALTRINCHAM.—John Robson, nurseryman, 27 The Downs.

ANTRIM.—The County Council have received two applications from grocers and general merchants at Cushendall and Larne respectively.

APPROATH.—James Cuthbert and his assistant, James Kemp, of 8 Commerce Street; Alexander S. Smith and Adam Smith, 124 High Street; James McIntosh and Ernest McIntosh, trading as John Thompson, 103 High Street—all ironmongers and seedsmen. (April 16.)

BELFAST.—Seven or eight of the principal seedsmen and dealers in agricultural implements have applied for licences.

BELLINGHAM S.O. (NORTHUMBERLAND).—John Allen, grocer.

BIRKENHEAD.—Thos. White Graham, 94 Hamilton Street; Wm. Laird, 72 Argyle Street; John Hearn, Oxtan Hill—all seed-merchants.

BIRMINGHAM.—W. H. Simpson & Sons, nurserymen, Broad Street.

BRECHIN.—Alex. Annandale, of Henderson & Sons, Trinity Road, and David Snell, 20 Swan Street, seedsmen; Wm. Ferguson, of Ferguson & Flood, Swan Street; W. Napier, 21 High Street; John Smith, 9 Market Street—all ironmongers; C. M. Inglis, 12 St. David Street.

BRIGHTON.—James E. Davis & Sons, seedsmen, 1-2 Baker Street.

BRINSCOMBE (GLOS.).—G. Bishop & Sons, nurserymen.

BRISTOL.—Brown & Sons, seedsmen, 31 Bridge Street; Parker & Sons, nurserymen, 12 Royal Promenade, Queen's Road; Henry Matthews & Co., drysalers, Lewins Mead and Old King Street.

BROMLEY (KENT).—J. Morton Crouch, ironmonger, 11 Masons Hill; Wm. Dell, ironmonger, 15 Market Square.

BURNLEY.—Chas. H. Holmes, trading as Starkie Baldwin, seedman, etc., 1 Market Square.

BURY.—Cyrus Ainsworth, seedsmen, 5 Castle Buildings, Old Market Place.

CANTERBURY.—F. Finn & Sons, Ltd., ironmongers, St. Margaret's Road; Taylor Bros., seedsmen, St. George's Street.

CARDIFF.—Wm. Treseder, the Nurseries.

CHATHAM.—H. C. Lawrence & Son, nurserymen, 2 High Street.

CHELTHAM.—J. Cypher & Sons, nurserymen, Queen's Road; Wm. Hopwood & Son, seedsmen, 58 High Street; Yates & Sons, seedsmen, 432 High Street.

DALKEITH.—Metcalfe, Duncan & Co., ironmongers and seedsmen, 59-61 High Street.

DEVONPORT.—Jas. Alexr. Harris, seed-merchant, 22 Marlborough Street.

DEWSBURY.—Wm. Ballance & Son, Market Place.

DURHAM.—T. Matheson, seed-merchant, Old Elves.

DURSLEY (GLOS.).—J. Richards & Co., nurserymen. (April 14.)

EALING (LONDON, W.).—Arthur Scott, 37 Haven Green and 15-17 The Avenue, West Ealing; John Thos. Hart, seedman, New Broadway.

EPSOM.—E. & W. W. Morse, seedsmen, East Street.

EVESHAM.—Liversidge & Co., horticultural sundriesmen, 41 High Street; Yates & Sons, seed-merchants, 3 High Street. (April 13.)

FALKIRK.—David Dow & Son, seedsmen.

GALASHIELS.—John Dun & Co., seed-merchants, 9 Island Street; R. Thripland & Son, ironmongers, Chapel Street.

GLASGOW.—Eighteen of the twenty-one applicants noted last week have advertised their intentions in the local Press. New Applicants.—P. and R. Fleming & Co., iron merchants, 29 Argyle Street; John Martin, 50 West Scotland Street; John McGregor, Keltarn.

HARROGATE.—E. J. Batchelor & Sons, seedsmen, Station Square.

HALIFAX.—Wm. Conway & Sons, Ltd., seedsmen, 16-18 Bull Green.

HEMEL HEMPSTEAD.—H. Flint and Arthur Flint, ironmongers, 22 and 25 High Street.

INVERARY.—Wm. Robertson, ironmonger and seedman.

KENDAL.—C. S. Webb & Co., nurserymen and seedsmen, 18 Highgate; John Heath, 33 Finkle Street; Thomas Moffat & G. E. Thompson, agricultural agents, 23a Finkle Street.

KIRKCALDY.—Edward Sang & Sons, seed-merchants, 182 High Street; Thomson Bros., ironmongers and seedsmen, 238 High Street, 40 Commercial Street, Pathhead, and Auction Mart, Thornton, Fife.

LANCASTER.—J. Hodgson, corn-merchant, Corn Market Street; G. H. Maudsley, seed-merchant and sheep-dip manufacturer; W. Shand & Sons, nurserymen, etc.

LANGHOLM.—A. G. Fairley, ironmonger, etc., 27 High Street.

LAUDER.—John Liddell, seedsman, Market Place.

LINCOLN.—Parnell & Sons, seedsman, 312 High Street.

LIVERPOOL.—Boundary Chemical Co., 27-29 Cranmer Street; Thos. Coulton, florist, 11B Aigburth Vale; Thos. Davies & Co., nurserymen, Wavertree; Robert P. Ker & Sons, nurserymen, etc., 11 Basnett.

LLANDOVERY.—John Nicholas, patent-medicine vendor.

LYDD.—Charles T. Sellers, druggists' sundriesman, High Street.

MAIDSTONE.—Geo. Bunyard & Co., Ltd., nurserymen.

MANCHESTER.—Brown & Wilson, seedsman, 10 Market Place; Chibran's, 10 Market Street and 185 Water Street; Frank Dicks & Son, 68 Deansgate; Dickson, Brown & Tate, 43 and 45 Corporation Street; Dickson & Robinson, seedsman, 16 Cathedral Street; Dobie & Mason, seedsman, 22 Oak Street; George & William Yates, 28 Market Street; Samuel Yates, seedsman, 75 Shude Hill. (April 15 and 16.)

MELROSE.—George McNeil, ironmonger; Armstrong & Renwick, seedsman.

NEWCASTLE-UNDER-LYME.—Arthur Geo. Leighton, seed-merchant, Market Buildings and Friar Street.

NEWTON STEWART.—Alex. Forsyth, ironmonger, 1 Queen Street; Thos. McCreath, ironmonger and seedsman, 28 Victoria Street.

NORTH SHIELDS.—Smurthwaite Bros., florists, Preston and Bedford Street.

NORTHAMPTON.—John Perkin & Son, nurserymen, etc., 52 Market Square.

NORWICH.—Tacon & Cowell, seedsman, 15 Rampant Horse Street; Daniels Bros., Ltd., seeds-growers, Norwich.

NOTTINGHAM.—John Millar Stewart, seedsman, etc., 16 Market Place; E. Steward, seedsman, 57 Carrington Street.

PARKSTONE (DORSET).—Thos. Kendall Ingram, nurseryman.

PLYMPTON (DEVON).—T. J. R. Challice & Son, seedsman.

PORTWILLIAM.—John Inglis, ironmonger.

ROTHERHAM.—A. F. Upstone, seed-merchant, 35 Church Street.

ST. BOSWELLS.—Armstrong & Renwick, seedsman.

SELKIRK.—Frank S. Philip, seedsman, 1 The Glebe; Robert Laurie, ironmonger, 19 Market Place.

SHEFFIELD.—Fisher, Son & Sibray, Ltd., nurserymen, 4 Market Street; Brooke Bray & Sons, seedsman, Sharrow Vale Road.

SOUTHEND-ON-SEA.—H. Vaughan Kynaston, ironmonger, 51 Southchurch Road.

STORNOWAY.—Charles Morrison & Co., general merchants, Bank Street.

STOURBRIDGE.—Ed. Webb & Sons, Wordsley; Ed. Elt & Son, Heath Street—both seedsman.

STROOD (ROCHESTER).—Hornall & Reynolds, seed-merchants, 13-15 High Street.

SUNDERLAND.—Three applications from local seedsman came before the Town Council's Health Committee on April 15. One of the applicants has since advertised his intention of applying for a licence. (April 20.)

SUTTON (SURREY).—Cox Bros., seedsman, Carshalton Road.

TAUNTON.—E. E. Chick, seed-merchant, 29 North Street; Hawkes & Sons, Ltd., Farmers' Supply Stores, 32 East Street and Castle Green.

TROWBRIDGE.—J. Boulter & Sons, seedsman, Silver Street.

TUNBRIDGE WELLS.—A. Charlton, Eridge Road; J. Charlton, 35 and 37 The Pantiles, seedsman, etc.

WARMINGHAM.—H. J. Wheeler, seed-merchant.

WARRINGTON.—T. Pierpoint, 32 Horsemarket Street; G. Starkey, Golden Square—both seedsman.

WATFORD.—Gleeson & Co., seedsman, 41 High Street.

WOKINGHAM.—Philip Sale, East Berks Seed-warehouse.

YORK.—James Backhouse & Sons, Ltd., seedsman.

### Consideration of Applications.

ABERDEEN.—The Public Health Committee of the Town Council remitted the consideration of granting licences, along with a number of documents relating thereto, to a sub-committee for report.

BELFAST.—A deputation from the Chemists' and Druggists' Society of Ireland, consisting of Messrs. Samuel Gibson, J.P. (President), W. J. Rankin (Hon. Secretary), Samuel Saffern, and Wm. Haslett, waited on the Police Committee of the Belfast Corporation on April 15 with reference to the issuing of licences. The deputation stated that in their opinion the Act was framed principally to benefit outlying districts where farmers had great difficulty in obtaining sheep-dips and other articles, and the deputation asked that licences should be issued for poisonous substances used exclusively in connection with horticulture, and not for agricultural purposes. The deputation also requested that to some person should be allocated the duty of seeing that the regulations are strictly observed by the licensees. The Chairman of the Committee

(Dr. J. D. Williamson, J.P.) informed the deputation that their views would be carefully considered by the Committee when dealing with applications for licences.

BURY ST. EDMUNDS.—The Watch Committee of the Town Council recommended that no licences be issued. However, three tradesmen having written asking for a deputation to be received on the matter, the report was referred back to the Committee.

DUFFTOWN.—A letter was read to the Town Council, on April 14, from the resident Secretary in Scotland of the Pharmaceutical Society, pointing out that there are three chemists in the burgh, which is all that is necessary for the purposes of the Poisons and Pharmacy Act.

DUNFERMLINE.—The Town Council have approved the Magistrates' recommendation not to grant licences for the district.

GLOUCESTERSHIRE.—The County Council have received objections to the granting of licences from the chemists of Cirencester. Wotton-under-Edge, Chipping Sodbury, Berkeley, Coleford, Stroud, and Cheltenham. These objections were referred to the Diseases of Animals Act Committee for consideration, together with the fixing of fees for licences.

HEREFORD.—The City Council have decided to grant licences to Mr. J. Wilson, seedsman, 44 Commercial Street, and to the King's Acre Nurseries, Ltd., High Town.

HEREFORDSHIRE.—The County Council referred petitions from the county chemists and Mr. Thos. G. Dobbs, of Worcester, *re* poison-licences to the General Purposes Committee. The latter was the circular letter of the Traders in Poisonous Compounds for Trade Protection Society, which has already been given in these columns (*C. & D.*, April 3, p. 521). The former letter was sent by Mr. J. J. Jackson, Ph.C. (Messrs. Chave & Jackson, chemists, Hereford), who submitted a list of chemists in the county to show that the "reasonable requirements" of the public are already met, and giving reasons why poison-licences are not needed.

INNERLEITHEN.—The Town Council has refused an application for a licence by Mr. J. Ferguson, grocer, spirit-dealer, and ironmonger, on the ground that there are already two chemists in the town.

KILKENNY.—Mrs. Kate Sherin, High Street, applied to the Urban Council for a poison-licence. Alderman Cantwell also wrote applying for a licence "as regulated by a recent Act of Parliament," and added, "I will pay the fee on hearing the amount." This applicant, who was present as a member of the Council, said he thought the fee was 5s., his information being obtained from a trade paper. Both licences were granted subject to the fee being paid when the amount has been ascertained. The licensees are hardware-dealers.

MANCHESTER.—The effect of the issue of the regulations by Order in Council has been to reduce the number of applications from twelve to eight, and a more careful study of them would probably reduce the number still further. It is not certain at present what committee of the Manchester Town Council will deal with these applications. The matter was first relegated to the Sanitary Committee, and then to the Nuisance Sub-Committee, which, as a local pharmacist remarked, seemed very appropriate. There seems to be a good deal of doubt on the part of those applying for these licences as to the conditions under which the preparations in question must be retailed.

MONTGOMERYSHIRE.—The County Council granted licences to Turner Bros., ironmongers, Newtown; J. Lloyd, Carno; and H. E. Ellis, Llanfair, on April 13.

WALSALL.—On the motion of Dr. Stead, concerning the instructions given by the General Purposes Committee (before handing their duties over to the Watch Committee) that all persons who had been in the habit of selling agricultural and horticultural poisons be temporarily licensed for three months (*C. & D.*, April 17, p. 595), the matter was referred back for further consideration. Dr. Stead contended that the committee's action defeated the very object for which the Act was passed.

WOLVERHAMPTON.—The powers and duties of the Council regarding agricultural and horticultural poisons have been delegated by the Town Council to the Watch Committee, subject to confirmation of their acts by the Council.

### From the Press.

The Secretary of the Traders in Poisonous Compounds for Trades Purposes Protection Society (Mr. T. G. Dobbs, Worcester) has joined in the Liverpool controversy *re* poison-licences (*C. & D.*, April 17, p. 595). In a letter to the "Liverpool Post" of April 15, after repeating his customary assertion regarding the "anomaly created by the Pharmacy Act, 1868," and saying that nurserymen, etc., "although illicitly," had created the demand for insecticides, Mr. Dobbs states that "the pharmacists—for their own profit—began to prosecute such seedsman, and are even now trying to mislead local authorities by misrepresenting



that they have in the past supplied the requirements of the public," and "the way in which chemists are misrepresenting that they are better able to safeguard the public . . . is misleading, but the public and the local authority will not be 'gulled' by such misrepresentations." He states that the nurseryman and florist know from experience the best insecticides, whereas the chemists' experience is restricted to compounding medicines, and he ends up by quoting "Pharmacy for the pharmacist, trade for the trader."

A very good article entitled "Sale of Poisons" also appeared in the "Manchester Guardian" of March 29 last, when the provisions of the new Act were very fairly expounded. An article entitled "Poisoning Made Easy," "Seedsmen may Sell Enough to Wipe out a Village," "Pharmacists Agitated," also appeared in the "Manchester Daily Dispatch" for April 9, and referred to the decision of the Health Committee of the Liverpool Town Council to grant such licences. An interview with "a well-known pharmacist" in Liverpool is reported at length.

## Legal Reports.

### Trade Law.

**Artificial Teeth.**—In the case of *Hirst v. Callender*, heard at the Nottingham County Court on April 14, the plaintiff sued Callender's Patent Plateless Painless Dental Co., Ltd., 14 Market Street, Nottingham, for 15*l.* 15*s.*, damages for alleged breach of warranty in respect to a set of teeth (top and bottom), ordered in February 1908, in gold plate, for which he paid 15*l.* 15*s.* Defendants had supplied three sets in trying to fit, but plaintiff had to go elsewhere before he was satisfied. In the result he was awarded 7*l.* 7*s.*

**Bankers and Forged Signatures.**—The secretary of a company forged the signatures of his directors to cheques purporting to be drawn on behalf of the company, and obtained payment from the company's bankers. The company claimed to recover from the bankers. Mr. Justice Bray has held (1) that the fact of the directors not having examined the company's cash and pass books during the time when the forgeries were going on did not preclude the company from recovering, and (2) that the fact of the pass-book containing the entries of these forged cheques having been sent to the bank subsequently without comment did not constitute a settled account between bank and company; and, arising out of these points, there is no implied agreement between bankers and their customers that the latter shall take precautions in the general course of carrying on their business to prevent forgeries on the part of their servants.

**Bankers and their Customers' Pass-books.**—The Lord Chief Justice (Lord Alverstone) gave a decision at Manchester Assizes recently which is of importance to bankers and their customers. It was to the effect that entries made by a banker in his customer's pass-book, although subject to adjustment, are *prima-facie* evidence against the banker of the amount standing to the credit of the customer, and the customer is entitled to rely upon the accuracy of such entries. The circumstances out of which this judgment arose were these. The plaintiff, who was a customer of the defendant bank, looked in his pass-book and saw that it showed a balance of 70*l.* in his favour. Thereupon he drew a cheque for 67*l.* to pay an account. On the cheque being presented by the firm to whom it was sent, the defendants dishonoured it on the ground that only 60*l.* stood to the customer's credit. It appeared, however, that one of the bank clerks had in error credited the plaintiff in his pass-book with a sum of 10*l.* twice over, which made it appear from the pass-book that the plaintiff's account was in credit to the amount of 70*l.*, whereas really it was only in credit to the amount of 60*l.* The Lord Chief Justice held that although the bank were entitled to have this corrected ultimately, yet the plaintiff, who had not been guilty of any negligence or fraud in connection with the matter, was entitled until that correction had been made to act upon the defendants' statement in his pass-book, and that, having acted upon those statements and suffered damage thereby, he was entitled to recover the amount of such damage against the defendants.

### High Court Case.

#### SACCHARIN PATENTS.

In the Chancery Division on April 20, before Mr. Justice Eve, the case of the Saccharin Corporation, Ltd. *v.* the National Saccharin Co. was mentioned. Mr. Moritz asked that the matter should stand over. An order was made restraining the defendants from parting with or

dealing in certain saccharins mentioned in affidavits. The motion was ordered to stand over from the last sittings to the first motion day of this term, but defendants now said they were not ready with their evidence, and asked for a further postponement in order to file evidence. Plaintiffs also required time to answer this. His Lordship ordered the motion to stand over until Friday next.

### Dentists Act.

#### "PAINLESS EXTRACTIONS."

At Newcastle-on-Tyne on April 15, summonses against Samuel Horsey and Frederick Miller for infringement of Section 3 by advertising painless extractions were dismissed on payment of costs. The Magistrates announced that in future exemplary penalties would be imposed.

#### "TEETH EXTRACTED."

Mr. GILL, the Greenwich Magistrate, gave judgment on April 17 in the action by the British Dental Association against Charles Taylor for infringement of Section 3 of the Act, as reported in the *C. & D.*, April 10, p. 554. Mr. Gill said the words exhibited outside defendant's premises where he carried on business were:

C. Taylor, artificial teeth, extractions by gas and ether daily, teeth with or without plates.

Those words appeared to him to be a bare announcement in the simplest language of the work that the defendant did, and which the law permitted him to do. If the announcement had contained a commendation of his work different considerations would have arisen. The other cases which had been cited turned upon different language, and language that went much further. Mr. Eves had been driven to contend that a notification comprised in the words "Teeth are extracted" would imply special qualification, and was illegal. In his opinion this contention was untenable, and he adopted the language of the Lord Justice Clerk in giving judgment in the case of *Elmslie v. Paterson*, viz.:

I cannot find in these words anything which implies special qualification. If the defendant can, without any breach of the criminal law, extract teeth and put in false teeth, or the like, I can see nothing in the statutes forbidding him from announcing that he does so.

The summons was dismissed, with three guineas costs.

#### DENTAL ADVERTISING-TABLET.

At Yarmouth on April 19, Walter A. Beckett, Lowestoft Road, Gorleston, was summoned for a breach of the Dentists Act by exhibiting on a tablet the following notice:

High-class artificial teeth, moderate charges, consultations free. Teeth carefully extracted, 1*s.*; with anæsthetic, 2*s.*; permanent stopping from 2*s.* 6*d.* Attendances Mondays, Thursdays, and Saturdays. Hours from 11 A.M. to 8 P.M., or by appointment at any time.

Defendant said he had removed the tablet after legal advice. A fine of 5*s.* and 19*s.* 6*d.* costs was inflicted.

### Sale of Food and Drugs Acts.

#### SPIRIT OF NITRE.

At Chesterfield on April 14, Clara Elizabeth Gittos was ordered to pay the costs for selling spirit of nitre. It contained only 4.7 per cent. of the proper amount of nitrous ether.

#### VINEGAR.

At the South-Western Police Court on April 14, William Allman, grocer, Sunnyside Road, Streatham, London, S.W., was fined 5*s.*, and costs, for selling as malt-vinegar a liquid made from acetic acid.

#### CAMPHORATED OIL.

At Market Weighton, Sarah West, grocer, East Cottingham, was fined 5*s.*, and costs, for selling camphorated oil below Pharmacopœia strength. Defendant said she sold the article as she received it. The Chairman remarked that wholesalers ought to be compelled to give a warranty with an article of this kind.

**CANADIAN MINERAL-WATER.**—The Canadian Pacific Railway Company which, in addition to its railway work, carries on gold mines and an opera house, has purchased the "Magi" spring at Caledonia Springs, Ontario, and is placing the water from this source, which has medicinal properties, on the British market.

## Bankruptcy Reports.

*Re* ALBERT EDWARD BIRD, 7 Vicarage Road, Watford, Chemist and Druggist.—According to the statement of accounts filed herein the unsecured liabilities amount to 320*l.* 4*s.* 3*d.*, and the net assets are estimated to realise 21*l.* 1*s.* 4*d.*, thus disclosing a deficiency of 799*l.* 2*s.* 11*d.* The debtor, who filed his own petition, in February 1906 purchased the business for 450*l.*, of which 50*l.* is still unpaid. He then had 40*l.* capital in addition to 300*l.* borrowed from relatives and friends, none of which has been repaid. At the date of the receiving order the Sheriff was in possession, under execution at the suit of three creditors, and two other creditors had obtained judgment against the debtor, who states that within the last six months he has been sued by many other creditors, all of whom he has paid. The unsecured liabilities include money lent (500*l.*), rent (30*l.*), the balance being practically in respect of trade debts. The debtor ascribes his failure to his wife's illness, bad trade, lack of capital, competition, and law-expenses.

*Re* FLORENCE PATTIE BROWN (trading as Mrs. F. W. Brown), Dispensing Chemist, Liphook, Hants.—The receiving order in this case was made on the debtor's own petition, and according to the accounts filed the unsecured liabilities amount to 535*l.* 13*s.* 9*d.*, and the net assets are expected to realise 26*l.* 4*s.* 1*d.*, a deficiency being disclosed of 509*l.* 9*s.* 8*d.* It would appear that following the death of her husband in July 1907, the debtor took out letters of administration. In September 1907 a composition of 5*s.* in the pound was accepted by the creditors, with the exception of the vendors of the business, who claimed to be entitled to possession under an agreement with the debtor's husband. After the arrangement with the creditors the business was continued by the widow with qualified assistance, and in September 1907 a new agreement was entered into under which the debtor was to pay 350*l.*, with interest at 5 per cent., by weekly instalments of 1*l.*, the vendors to execute the usual assignments of the residue of the terms under the leases upon the payments of the balance of principal and interest, the debtor in the meantime to pay the annual rent of 28*l.*, the agreement reserving power of re-entry in case of failure in the payment of the weekly instalments or the rent. After the payment of the composition and 20*l.* to the vendors, the debtor's capital amounted to 45*l.* The rent and interest appear to have been paid, but the instalments are in arrear. Debtor ascribes her failure to there being insufficient turnover to meet expenses and to pay instalments of purchase money of business and interest. The following are creditors: Baiss Bros. & Stevenson, Ltd., London (14*l.*); Gane, Inge & Hooper, Haslemere (307*l.*); Meggeson & Co., Ltd., London (18*l.*); F. Newbery & Sons, Ltd., London (29*l.*); Sutton & Co., London (37*l.*); Sangers, London (38*l.*); preferential creditors (13*l.*).

## Gazette.

### Partnerships Dissolved.

- BEARDSWORTH, J., and WINDLE, E., drysalters, etc., Bamber-bridge, Lancs, under the style of Beardsworth & Windle.  
BLAIN, W., BLAIN, A. L., and BLAIN, W. R., pharmaceutical chemists, Bolton, Lancs, under the style of William Blain & Sons.  
DAVIDSON, W. A., and MCCARROLL, J. C., general medical practitioners, Uxbridge Road, Shepherd's Bush, London, W., and Shepherd's Bush Green, London, W., under the style of Davidson & McCarroll.  
TUNBRIDGE, F., and STRONG, R. W. C., aerated-water manufacturers, Reading, Berks, under the style of Tunbridge & Co.

### The Bankruptcy Acts, 1883 and 1890.

#### ADJUDICATIONS.

- JONES, WILLIAM, Edmonton, Middlesex, licentiate of the Royal College of Physicians and Surgeons, Edinburgh.  
TURNER, DR. CHARLES ERNEST, Camberwell Road, London, S.E., physician and surgeon.

#### Liquidation.

- HARROGATE MINERAL AND AERATED WATER CO., LTD.—Meeting at 1 Princes Street, Harrogate, at 11 A.M., to receive report of the liquidator, Mr. G. C. Veale, East Parade Chambers, Leeds.

SWISS CHEMICAL TRADE.—The exports of chemical products from Switzerland during 1908 were valued at 12,251,000*l.* against 11,911,000*l.* in 1907 and 11,037,000*l.* in 1906; imports of chemical products were valued at 34,165,000*l.* in 1908, 33,564,000*l.* in 1907, and 32,354,000*l.* in 1906.

## Deeds of Arrangement.

MURPHY, JOHN, 17 Bridge Street, Cork, Pharmaceutical Chemist.—Dated April 13; filed April 16. Secured or partly secured creditors, 665*l.*; liabilities unsecured, 465*l.*; estimated net assets, 140*l.* The following are among the creditors: Kiloh & Co., Cork, 62*l.*; Southall Bros. & Barclay, Ltd., Birmingham, 27*l.* 5*s.*; Hodgkinson, Prestons & King, London, 23*l.*; Harrison & Waide, Leeds, 10*l.*; York Glass Co., York, 10*l.*

BIGGS, THOMAS SETH HARWOOD, 146 Waterloo Road and 3 Rushton Road, Burslem, Chemist and Wholesale Druggist.—Trustee: A. Wayte, 30 Albion Street, Hanley. Dated April 3; filed April 14. Liabilities unsecured, 683*l.*; estimated net assets, 227*l.* Among the creditors are: Baiss Bros. & Stevenson, Ltd. (12*l.*); Harker, Staggs & Morgan, Ltd. (14*l.*); Hodgkinson, Prestons & King (14*l.*); Bovril, Ltd., Birmingham (14*l.*); Wyleys, Ltd., Coventry (19*l.*); Evans Sons Lescher & Webb, Ltd., Liverpool (82*l.*); Jewsbury & Brown, Manchester (12*l.*); J. Woolley, Sons & Co., Ltd., Manchester (19*l.*); Raines & Co., York (33*l.*).

## New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

BRYAN & SPEDDING, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, opticians, drysalters, photographers, nature-study specialists, etc. The first subscribers and directors are D. A. Bryan, chemist and optician, and A. B. Spedding, optician (managing director). R.O., 48 Deansgate, Manchester.

E. A. FIRTH & CO., LTD. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To take over the business of drysalters, wholesale manufacturing chemists, and produce agents, carried on at Manchester and elsewhere as E. A. Firth & Co. The first subscribers and directors are J. Nuttall, gentleman; M. Wilks, chemist; and E. C. Nuttall, drysalter. R.O., 10-20 Blackfriars Street, Manchester.

ANGLO-PERSIAN OIL CO. (LIM.).—Capital 2,000,000*l.*, in 1*l.* shares. Objects: To acquire any petroleum or oil-bearing lands in Persia or elsewhere, to adopt an agreement with the Concessions Syndicate, Ltd., the Burnmah Oil Co., Ltd., and Lord Strathcona and Mount Royal, and to carry on the business of dealers in and refiners of petroleum and other mineral oils, etc. The first directors are Lord Strathcona and Mount Royal, G. W. Wallace, Prince Francis of Teck, K.C.V.O., Sir Hugh S. Barnes, K.C.S.I., K.C.V.O., W. Garson, J. T. Gargill, W. K. D'Arcy, J. Hamilton, and C. Greenway. Qualification, 1,000*l.* Remuneration according to profits.

CRUSE & CO., LTD. (P.C.).—Capital 2,650*l.*, in 1*l.* shares. Objects: To take over the business of a dispensing chemist, dealer in photographic and optical goods, surgical instruments and appliances, homeopathic medicines, perfumery, etc., carried on by T. H. Cruse as Cruse & Co. at 63 Palmerston Road, Southsea, and 11 Waverley Road, East Southsea (also known as 7 The Strand), Portsmouth. The first subscribers are T. H. Cruse, pharmaceutical chemist; R. J. Edgar, pharmacist; H. T. Orme, pharmacist; Jessie Cruse, clerk; Miss E. Cruse; and Miss G. Cruse. The first directors are T. H. Cruse, R. J. Edgar, and H. T. Orme. Qualification, 100 shares.

PARFUMS-PRODUITS DE FRANCE, LTD. (P.C.).—Capital 10,000*l.*, in 1*l.* shares. Objects: To take over the business of chemists, druggists, and perfumers carried on by Morny Frères, Ltd., at 201 Regent Street, W., and elsewhere, and to adopt an agreement with W. Hales, E. Merry, W. C. Johnson, F. N. Layman, J. Poole, and J. James. The first directors are W. C. Johnson, Broadstone Farm, Colemans Hatch, Sussex, civil engineer; E. L. Merry, 60 Chepstow Villas, Bayswater, W., chemist; J. James, 25 Milner Square, Islington, N., chemist; F. N. Layman, 48 Southwark Street, S.E., manufacturing chemist; W. Hales, 105 Loveday Road, Ealing, chemist; and J. Poole. Qualification, 500*l.* R.O., 201 Regent Street, W.

BENGER'S FOOD, LTD.—The directors announce a dividend of 10 per cent. on the ordinary shares for the past year, carrying forward 4,964*l.*

ARFIE, LTD.—The affairs are being wound up by Mr. Thomas Robinson, accountant, etc., 29 High Street, Chatham (the liquidator). The company opened manufacturing premises a short time ago at Bingley Road, Rochester, where the



ointment "Arfie" was made. The liquidator is about to realise the effects of the company by auction and otherwise.

**ROBERT AMBROSE, LTD.**, Medical Herbalists and Botanical Druggists, 208 Paisley Road, Glasgow.—The shareholders have resolved: "That the offer by Robert Ambrose, managing director of the company, to take over the business of the company as a going concern as at February 16, 1909, with all its liabilities and assets, and in return therefor to pay to the shareholders in full the amount paid up on their shares, be and hereby is accepted, and that the company be and hereby is voluntarily wound up." Mr. Robert Ambrose continues the business under his own name.

**GERMAN CHEMICAL DIVIDENDS.**—The annual report for 1908 of the *Badische Anilin und Soda-Fabrik* of Ludwigshafen states that the gross profits amounted to 935,436*l.*, as compared with 897,680*l.* in 1907. After meeting working expenses and interest on loans, the net profits are 740,340*l.*, as against 722,536*l.* in the preceding year; and after providing 294,350*l.* for depreciation (257,236*l.* in 1907) the balance allows of a payment of a dividend at the rate of 22 per cent. on 1,050,000*l.* capital for the year and on 750,000*l.* for six months, as against 30 per cent. on the same amount of capital respectively in 1907. The report states that the new Bavarian taxes are adding very considerably to the expenses of the company, and the company are seriously considering the expediency of not erecting any further plant in Bavaria.—The *Von Heyden Chemical Works* of Radebeul are paying 10 per cent. for 1908, the same as in the preceding year.—The *United Chemical Co.* of Zeitz made a net profit of 1,640,455*m.*, as compared with 1,549,238*m.* in 1907, and again pay 25 per cent.—The net profits of the *Bayer Co., Ltd.*, of Elberfeld, during 1908 were 11,327,820*m.*, as compared with 12,602,411*m.* in 1907. It is proposed to declare a dividend of 24 per cent. on the old shares, and 12 per cent. on the new shares entitled to rank for dividend from July 1, 1908.—The *Chemical Factory*, formerly *Goldenberg, Geromont & Co.*, of Winkel, Rheingau, are to raise their capital from one million to one and a half million marks.

**MORTGAGES AND CHARGES.**—The following have been registered: *Callender's Patent Plateless Paintless Co., Ltd.* Debenture dated April 6, 1909, to secure 500*l.* Holder: Mrs. A. Callender, 324 Mansfield Road, Nottingham.—*Polysulphine Co., Ltd.* Particulars of 25,000*l.* debentures of 20,800*l.* is now issued. No trustees.—*Simcock, Ltd.* Debenture dated April 8, 1909, to secure any moneys for which A. Warrington may become liable under a guarantee of even date up to 300*l.*—The following memoranda of satisfaction in full have been filed: *T. H. Walton & Co., Ltd.* 200*l.*, of December 3, 1908.—*Samuel Banner & Co., Ltd.* Debentures of 600*l.*, dated July 16, 1908.

**RECEIVERS AND MANAGERS.**—The following have been appointed: Mr. J. E. Grace, 24 Clare Street, Bristol, for *Bambrough, Ltd.*; Mr. E. Freeman, Clanville House, Andover (instead of Mr. F. G. Chandler), for the *Crown Mineral Water Works Co., Ltd.*; Mr. R. E. Starkie, 25 Bond Street, Leeds, as receiver of part of the property, for the *Old English Vinegar Co., Ltd.* The following have ceased: Mr. A. M. Markowicz, Blenheim Road, Bedford Park, London, W., for the *Artificial Teeth Aid Society, Ltd.*; Mr. H. P. Wright, for the *Continental Oil and Chemical Co., Ltd.*; Mr. H. M. Barton, for *Morny Frères, Ltd.*

## Birth.

**McEWAN.**—At 7 Bellevue Terrace, Cathcart, on April 17, the wife of Arthur McEwan, pharmacist, of a daughter.

## Marriages.

**DUPUY—DE PUTRON.**—At St. Andrew's Parish Church, Guernsey, on April 15, by the Rev. J. Ughtred Pilbeam, Arthur Edgar Dupuy, pharmacist, 9 Commercial Arcade, Guernsey, to Edith Elizabeth, daughter of the late Mr. E. A. De Putron, *Pierre Percée*.

**SCHOLLAR—BLACKER.**—At St. John's Church, Middlesbrough, on April 17, by the Rev. P. D. Woods, B.A., Vicar, assisted by the Rev. R. L. B. Oliver, B.A., Newman Howard Schollar, pharmacist, Sussex Place, Queen's Gate, South Kensington, to Gertrude Blacker, Oak Villa, Linthorpe, Middlesbrough.

**SHADFORTH—CHAMBERLAIN.**—At St. Lawrence's Church, Brondesbury, London, N.W., on April 10, William Shad-

forth, pharmaceutical chemist, Bow, E., to Emily Harriet, youngest daughter of Mr. Charles Chamberlain, of Brondesbury.

## Deaths.

**CZARNIKOW.**—On April 16, suddenly, at 103 Eaton Square, S.W., Mr. Czesar Czarnikow, the famous Mining Lane sugar broker, aged seventy-two. Mr. Czarnikow was a native of Sondershausen, in Germany, and fifty years ago came to London to seek his fortune. He established a Colonial broker's business, and by his own energy and ability his firm gained the reputation of being the largest sugar brokers in the world, while he also carried on an extensive business in coffee and general produce. Mr. Czarnikow was one of the leading experts on the sugar market, and his frequently expressed views were regarded as authoritative.

**HATTON.**—At 34 Leinster Gardens, Runcorn, on April 9. Mr. John Hatton, chemist and druggist, aged eighty. Mr. Hatton was in business at Warrington for over fifty-five years. He served his apprenticeship with the late Mr. Isaac Picton, and subsequently entered into partnership with his employer. He was a warden of the Holy Trinity Church for over twenty years, and a founder of the local Working-men's Benefit Building Society, of which he was a trustee.

**MASSEY.**—At Lancaster, on April 20, Mr. William Massey, aged forty-eight. Mr. Massey was an assistant with the late Mr. W. Hall, chemist, Market Place, Lancaster, and also acted as manager with Messrs. Whinpry & Cardwell for many years. Eventually he started in business as a druggist and drysalter in Damside Street, Lancaster. Mr. Massey had suffered from ill-health for two years.

**MEDINGER.**—On April 17, at Vienna, Dr. Emil Medinger, of Messrs. J. Medinger & Soehne, Vienna, citric and tartaric acid manufacturers, aged fifty-seven.

**MERCK.**—On April 11, at Darmstadt, Dr. Carl Emanuel Merck, of the firm of E. Merck, Darmstadt, aged forty-seven. Dr. C. E. Merck was the son of the late Mr. W. Merck, and took an active part in the business, while a great part of his leisure was devoted to municipal and philanthropic matters in Darmstadt.

**TEASDALE.**—On April 9, Mr. Wm. Teasdale, formerly in business as a chemist at Youlgrave, near Bakewell, aged eighty-one.

## Personalities.

**MR. A. C. J. HORRELL, Ph.C.**, has been elected Vice-Chairman of the Broadstairs and St. Peter's Urban Council.

**MR. F. JACKS**, chemist and druggist, Stone, Staffs, has been re-elected Chairman of the Stone Urban District Council.

**MR. A. L. POTTER**, of Potter & Birks, Ltd., Macquarie Place, Sydney, left by the *Asturias* on March 31 for a visit to London.

**MR. ARTHUR HANSON**, pharmacist, Queensbury, near Bradford, has been nominated Vicar's Warden at the Queensbury Parish Church.

**MR. WILLIAM ANKLE**, chemist, Penny Street, Lancaster, has been re-elected, for the fifteenth time, people's warden of Christ Church Parish.

**MR. JOHN C. HEWLETT, F.C.S.** (C. J. Hewlett & Son, Ltd.), has been unanimously elected Chairman of the Beckenham Urban District Council.

**MR. CHAS. THOMAS WARD**, chemist and dentist, was returned as the people's warden at Southwick Parish Church for the nineteenth year in succession.

**MR. D. HOOPER, F.C.S.**, Indian Museum, Calcutta, avails himself of six months' leave from April 22. He will represent the Government of India and the Asiatic Society of Bengal at the International Congress of Applied Chemistry to be held in London in May.

MR. EDWARD CARDWELL, J.P., chemist and druggist, Laurel Bank, Lancaster, has been nominated for the vacancy on the Lancaster Town Council.

MR. ERNEST CLAGUE, son of Mr. T. Maltby Clague, Ph.C., Newcastle-on-Tyne, has passed the Medical Preliminary examination of the Edinburgh University.

MR. EDWIN CHERRY, of 47 Summerland Avenue, Newport, Monmouth, chemist and druggist, who died on February 26, left estate of the gross value of 11,661*l.* 1*s.* 11*d.*, with net personalty 9,897*l.* 2*s.* 9*d.*

THE FOLLOWING PHARMACISTS have been appointed sidesmen at their parish churches:

Mr. W. J. Barnes, at St. Mary Church, Dover.

Mr. W. S. Harvey, at Margate Parish Church.

Mr. A. C. J. Horrell, at Broadstairs Parish Church.

Mr. F. W. Stedman, at Ashford (Kent) Parish Church.

Mr. F. V. Rymer, Ph.C., of Simco & Co., 22 Market Street, Wellingborough.

SOME newspapers are stating that Mr. John Davidson, the poet whose disappearance and supposed suicide have been the topic of the week, was at one time a chemist. As a matter of fact, Mr. Davidson was a laboratory boy in sugar-works at Greenock for about two years before he was sixteen, when he became a pupil-teacher and devoted himself to teaching until he came to London in 1890. Mr. Davidson had a keen appreciation of science, and used to speak of his early experience, but he did not profess to be in any sense a chemist.

IN the final examination of the Council of Legal Education, held at Easter, the following gentlemen passed and will be duly called to the Bar: Mr. Henry Wippell Gadd and Mr. Walter Howell Williams Idris, of the Middle Temple, and Mr. William Trevena Williams Idris, of Gray's Inn. Mr. Gadd is the President of the Exeter Pharmacists' Association and a director of Messrs. Evans, Gadd & Co., Ltd., wholesale druggists, Exeter and Bristol. He passed the Minor examination in July 1891, and is well known throughout pharmacy in this country as a worker and writer in legal and practical matters connected with pharmacy. Mr. William and Mr. Walter Idris are two of the five sons of Mr. T. H. W. Idris, M.P. Mr. William is the eldest son and a pharmacist, having qualified in October 1901. Mr. Walter Idris is the second son; the third is Mr. Thomas H. W. Idris, who passed the Minor examination in January 1902, and is now studying medicine along with his brother, Mr. Ernest Idris. Mr. Hugh Idris, the youngest son, is articled as a solicitor to Mr. David Lloyd George, M.P.

## Trade Notes.

MESSRS. SMITH, STANISTREET & Co., wholesale chemists, Calcutta, who possess exceptional facilities for introducing new medicines to doctors in India, state in our advertisement-pages that they are prepared to negotiate for additional agencies.

VETERINARY CARBOLATED "VASELINE."—The Chesham Manufacturing Co., 42 Holborn Viaduct, London, E.C., have introduced a preparation containing 3 per cent. of carbolic acid in veterinary vaseline. This is intended as an antiseptic dressing for wounds, cuts, and sores of horses, cattle, and other beasts. It is a new line, and is sent out in tins holding 1 lb. and 5 lb.

PINDAR'S PILL-MACHINES.—Messrs. J. W. Pindar & Co., pill-machinery manufacturers, Brockley Tips, Brockley, London, S.E., inform us that among recent orders for pill-plant is one for Japan, which is required to turn out 400 lb. of pills weighing between 1 and 2 grains each. The plant includes mixing, piping, cutting, and coating machines, and is to be the most complete of its kind which Messrs. Pindar have yet supplied to the land of the chrysanthemum.

DOG-CAPSULES.—Messrs. Mawson & Co., 213 High Road, Streatham, London, S.W., have issued a special price-list of soluble dog-capsules and soluble "little" dog-capsules (for small animals). The firm suggest that many chemists will find the capsule form of medication a convenient method to introduce to those of their customers who are dog-lovers. Capsules are readily soluble, and hence prompt in action. The list with samples of the capsules can be had post free.

HEALA.—The Heala Manufacturing Co., 74-75 Cheap-side, London, E.C., are anxious that chemists should back up an advertising-campaign they are making by keeping "Heala" in stock ready for the demand which is being created. The public are being freely supplied with samples of the ointment put up in the form of capsules. "Heala," which is sent out in nice white pots with celluloid covers, is a white ointment of pleasant smell. It is employed in all skin-affections.

ONE HUNDRED YEARS AGO.—Messrs. Baiss Bros. & Stevenson, Ltd., manufacturing chemists, Jewry Street, London, E.C., use this heading in their advertisement in this issue. The opportunity is taken to emphasise the importance of buying drugs from a house with a reputation. Messrs. Baiss Bros. & Stevenson have retained the best features of an old-established business, to which the most approved modern methods have been added from time to time.

JAVA LEAF.—Mr. Robert Blackie, Shen Works, Tower Bridge Road, London, S.E., has sent us a sample-book of perfumed Java leaves, which he is placing on the market. The cover is in sage-green, and the leaves, intended to take the place of Java powder, hold in the pores of the paper sufficient powder for an application to the skin. The leaves pull out of the cover readily. Mr. Blackie informs us that the manufacture of this toilet-article is carried out entirely in his factory. The Java leaf is sent out in glass-covered boxes.

A NEW PRICE-LIST has been issued by Messrs. Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, London, E.C. In this catalogue are illustrated and priced a large number of goods used in surgery and the household which are kept in stock by pharmacists. Some hundreds of druggists' sundries are included in the fourteen sections into which the list is divided, among which may be noted syringes, pessaries, throat and nose instruments, inhalers, trusses, splints, urinals, hot-water bottles, thermometers, brushes, and combs. Those who do not know this list should send for a copy and study the prices.

MESSRS. GOODALL, BACKHOUSE & Co., Leeds, and 54 Southwark Street, London, S.E., have sent us a copy of their newly issued price-current. The list covers packed goods, proprietary articles, grocers' and druggists' sundries, oils, colours, and paints. We are informed that the patent-medicine section has been revised, and that the alterations in the prices of many important lines are greatly in the buyers' favour. The section devoted to packed goods is well illustrated. Particulars are also given of the Yorkshire Relish bonus scheme, which has been in operation for some time.

"CAMEO" SHAMPOO-POWDER.—We reported recently upon the lavender and rosemary shampoo-powder which the Standard Tablet and Pill Co., of Hove, had introduced. It has taken so remarkably well that the company have now added otto of violet shampoo-powder to the series. This has the same detergent properties as the lavender and rosemary powder, leaving the hair soft and not matted, while the odour is that of the "Cameo" violet perfume. We may remind Colonial buyers that the Standard Co. are now specialising in tubed goods, and samples of oatmeal skin-cream and thymol tooth-paste are evidence of the quality of the preparations and the artistic manner in which they are produced.

"VIOTTO" SPECIALITIES.—Courvoisier's otto of violets, which was introduced two or three years ago by Messrs. H. Bronnley & Co., Ltd., Acton Vale, London, W., has proved a remarkable success, having become one of the most popular high-class perfumes of the day. Among perfumes of violet fragrance it has a distinctive character, and the makers have recently registered for it the equally distinctive name "Viotto." This is now applied also to two new preparations, "Viotto" face-powder and "Viotto" sachets. The powder is subtilissimus in fineness, and wonderfully refreshing on application. It is delightfully perfumed, delicately tinted, and is put up in highly finished style for first-class trade. The sachets embody the fragrance of "Viotto," and are so produced that ladies can sew them into the skirts of their dresses—indeed, they are in demand for this special purpose. Messrs. Bronnley's "Havanneta" perfume is steadily



growing in popularity. The peculiar and rich odour of this perfume is appreciated in the East, and it is a good line for export trade.

**PAPIER POUDE, LTD.**, 23 Somerset Street, Portman Square, London, W., call attention by advertisement in this issue to the fact that they have recently obtained an injunction against an American firm who sold toilet-powder papers which infringed the trade-mark rights of their original booklet. We mentioned at the beginning of the month that a new book (seventy-four leaves) is now made by Papier Poudre, Ltd., to retail at 4½d. and costing the retailer 30s. per gross. The contents of this are the same (except in bulk) as those of the older 6d. booklet (ninety leaves), and are in the usual three tints, white, rose, and rachel. We understand that this has caught on unexpectedly well with chemists, and it may be noted that for orders of not less than 5 gross Papier Poudre, Ltd., print the retailer's name and address gratis on or in the cover.

**SPRING LINES.**—Messrs. Thos. Guest & Co., manufacturing confectioners, Ancoats, Manchester, send us samples of some new goods which are suitable for sale at this time of the year. The first item is compound sarsaparilla and sulphur tablets, which have a toffee basis and a tempting taste. The title alone conveys to the public the utility of the tablets, and a good sale should result where the confection is displayed. The tablets are each wrapped in waxed paper, and are packed in 4-lb. hinged glass-lid boxes for counter or window show. The other specimens are lime-juice blood-salts and hygeia salt, two effervescing preparations which are packed in 4-oz. and 8-oz. oblong enamelled tins with lever tops. The lime-juice blood-salts has a particularly pleasant flavour, and both preparations effervesce freely. Show-cards and dummies are supplied for the window. Messrs. Guest & Co. are offering in this issue to send samples and prices to any of our subscribers who apply.

**FAULDING'S MILK EMULSION.**—Messrs. F. H. Faulding & Co., Adelaide, have for more than a decade had on the Australian market, and supplied through their London office (54 Great Tower Street, E.C.), an emulsion of cod-liver oil with hypophosphites, which, on account of its degree of emulsification, they call "Milk Emulsion." We have examined a sample which they have recently sent to us, and we find that its production maintains the galenical and palatable characteristics which we noted in regard to it some years ago. We understand that in the Australian market the name "Milk Emulsion" has become so closely identified with this preparation that Messrs. Faulding have had no difficulty in getting the use of the title in connection with similar preparations abandoned without resorting to the services of the Courts. We mention this fact because in "Pharmaceutical Formulas" there are such sub-headings for various kinds of cod-liver oil emulsion, as egg emulsion, acacia emulsion, milk emulsion of cod-liver oil, etc., and we should like to make it clear that these are merely descriptive of the particular formulae, without reference to Messrs. Faulding's trade-name, which, we have no doubt, chemists will fully respect.

## Our Town Traveller.

### A Reminiscent Visit.

Bearing in mind the often-quoted problem, that "all work and no play makes Jack a dull boy," and fully believing that Chemists and Druggists are quite as susceptible of the evil effects of too close application to business as the mythical Jack, we propose taking our readers with us on a country excursion to Mr. Ransom's Farms for the cultivation of certain plants used in medicine. . . . We rattled down by the Great Northern Railway . . . to this quaint little old town of Hitchin, which lies embosomed among the beautifully wooded Hertfordshire hills. . . . Just at the entrance into the town is Mr. Ransom's factory, in which the plants he grows are manufactured into the preparations for which he is so famous.

It was my journalistic grandfather who wrote that, and the article, entitled "A Visit to Mr. Ransom's Physic Farms," was published in the *C. & D.* of December 15, 1863. The writer has long since gone to his rest, but Mr. William

Ransom is still with us, and has not lost touch with business, for he visits the factory (now controlled by his son, Mr. Francis Ransom) once or twice a week. The article from which I have quoted extends into eight pages of the *C. & D.*, and tells of fields of lavender, cucumber, aconite, belladonna, and henbane, which were growing luxuriously at the time of the writer's visit. We learn from the article that—

The best essence of lavender is distilled from a mixture of otto, four ounces; rectified spirit, five pints; rose-water, one pint. The best lavender-water consists of four ounces of English oil of lavender, three quarts of rectified spirit, and one pint of rose-water.

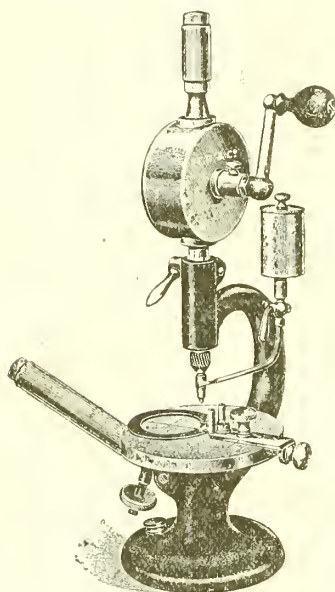
The force with which the seeds are driven out [of the squirting cucumber] is so great that Mr. Ransom frequently finds the country children who gather the cucumbers crying bitterly from the force of the blow.

The journey to Hitchin is not such a rattle nowadays as it was in 1863, for the Great Northern Railway has made travelling a luxury, and gives non-stop runs which bring the Hitchin man to the City within an hour. Conversely, I was taken down there in that time. I found the interest in the cultivation of drugs still there, although the work of the factory (much extended since 1863) is no longer confined to preparations of the drugs grown in the vicinity. Plots round the factory are devoted to aconite, rhubarb, and *Vinca major*—of all things in the world—the juice being still in demand. The plots are experimental, for the main fields are distant from the factory. The chief contrast between 1863 and 1909 is the development in the production of other galenicals than those of drugs indigenous to the locality. Mr. Ransom, sen., never confined his efforts to the latter, for even forty years ago he had a reputation for pil. hydrarg. and ung. hydrarg., to mention only two preparations; but the lines of work have been gradually broadened and adapted constantly to the demands of the time, so that now liquid galenicals (including fluid extracts and tinctures), extracts of such drugs as cascara sagrada and ipecacuanha, resins (such as scammony), resinoids (I saw a big batch of podophyllin last week), and many others are daily products of the laboratories. In the seasons vegetable juices and extracts made from them still give work to the factory, and stores of syr. rhæados and conf. rose gall. testify that the demand for old favourites is not extinct.

### Optical Instruments.

There is scarcely a more interesting occupation than walking through the factories of a scientific-instrument maker. One sees there in the process of making various instruments which in their finished state inspire a certain amount of awe. It is the mystery which surrounds things that are not familiar. To those who make optical or meteorological instruments the occupation is a matter-of-fact one, but here again it is the "knowing how" that is the key of the situation. These reflections resulted from a visit to Messrs. F. Darton & Co., 142 St. John Street, Clerkenwell, London, E.C. Messrs. Darton have added additional premises at 52 Clerkenwell Road, where the new shops which I inspected are used for the manufacture of electrical and other scientific instruments. I saw there electric motors, barometers, and thermographs in the process of manufacture. The thermograph, or self-recording thermometer, is an interesting instrument which continuously records temperatures on a revolving drum, in a similar manner to the recording aneroid barometer. The action depends upon the expansion of a pair of prepared metal coils, one being near a vessel of water. The variations in expansion are transmitted to pens, which leave two trails of ink on the chart covering the revolving drum. The difference between the markings is a record of the moisture in the air—an important matter in some industries, such, for example, as the cotton industry. The records are of considerable interest, and incidentally testify to the sensitiveness of the instrument. When the fire or gas is lighted the variation in temperature is shown, and the effect of gas in increasing the humidity of the atmosphere is recorded. The opening of the door of a room warmer or colder than the outer air is indicated, so that if, for instance, a burglar visited an apartment wherein was a thermograph the disturbance in the temperature which his presence would cause would be marked on the tell-tale chart. A good many of these instruments are being sold to Government

Departments, while scholastic authorities are causing at the present time a run on sets of standard meteorological instruments. These sets include maximum and minimum thermometers and hygrometer on the proper weather-



board, with charts and rain-gauge. Electric signs are increasingly in demand, and in London are being used by railway companies and other public bodies to an enormous extent. Chemists who want to draw attention to their business should state their requirements to Messrs. Darton, who can supply any kind of sign, as these are made on the premises. The "Octo" prismatic binocular, which is just ready for the market, is a little cheaper than one I saw here some few months ago. It sells at three guineas, the usual discount being allowed to dealers. Among other new lines which were introduced to me I may note a new series of

astigmatic pince-nez cases and a cheap line in motor goggles. The light-weight flat cases employed for astigmats have usually a basis of aluminium, but this metal is often unsatisfactory, the leather or velvet covering having a tendency to peel off. By the use of a new alloy this difficulty has been overcome, and the light weight of the case retained. The rotor goggles referred to are of the all-rubber variety, and are consequently comfortable to use. These sell at 2s. 6d. a pair. The utility of the "Perfect" lens-drilling machine, shown in the illustration, will be recognised by opticians who have much demand for rimless eyeglasses. Such a machine will enable a retail optician to undertake certain repairs of frameless work which have hitherto had to be sent to the wholesale house, owing to the heavy cost of a drilling-machine.

## Answers to Correspondents.

By Aunt Hannah.

(From "The Forged Enlightener.")

**CELIA.**—I think not, dear. The fact that your young man is a chemist explains why he always gives you presents of perfume. Certainly such gifts are liable to misconception, but not in the sense which you suggest. He is probably only a little mean.

**ALSO RAN.**—There is no infallible system; and to fancy a horse's name—Oh, my dear child! A friend of mine, a patent-medicine proprietor, "backed" Veno and Dinneford all last season!

**ANXIOUS.**—Yes, strychnine is a splendid heart tonic. You should give your aunt a heaped teaspoonful after meals. How I wish that your expectations were mine!

**MONA.**—Try to be more careful. A doctor, whom I know very well, has just lost the custom of a Sons of Temperance lodge because he thoughtlessly wrote S.O.T. on their medicine labels.

**SLEEPLESS.**—You say that you read Butler's "Analogy," and that it is useless for the purpose. I used to subscribe to a pharmacist's periodical and found it so helpful. A good dentifrice, which I can recommend, consists of sawdust, 1 part; boracic crystals, 2 parts; and liquorice-powder to flavour. Your husband will gladly procure the first ingredient for you.

**THOUGHT-READER.**—It is unkind of you to think such a thing. I do not choose drugs in a haphazard manner. It was a printer's error which made me state that birdlime and vaseline were excellent remedies for eczema. "Be good, sweet maid, and let who will be clever," sang Eucalyptus, the first chemist, long, long ago.

## Association Affairs.

### Brief Records.

**Sunderland.**—At a meeting of the local Chemists' Association on April 6, it was decided to contribute 3*l.* 3*s.* to the election fund for a pharmaceutical Parliamentary candidate. Satisfaction was expressed that Mr. W. S. Glyn-Jones was the prospective candidate.

**Nottingham.**—The meeting of the Nottingham Pharmaceutical Association held on April 21 was occupied by an interesting lecture on "The Gases of the Air," by Dr. R. M. Caven, a member of the staff of University College. Mr. D. Ellis (Vice-President) occupied the chair. The lecturer received a vote of thanks.

**Forfarshire Chemists' Association.**—There was a very large attendance at the meeting held in Mather's Hotel, Dundee, on Wednesday, April 21. Mr. J. S. Whyte (Arbroath) presided. Mr. J. R. Hill (Edinburgh) was present, and after a full consideration of the position created by the Poisons and Pharmacy Act it was resolved to leave to the Dundee committee to take whatever steps they consider necessary to protect members' interests. On the motion of Mr. John Anderson, the meeting resolved not to approve of the scheme for reconstruction of the Federation.

**Halifax.**—A meeting of the Trade Section of the Halifax Chemists' Association was held on April 15, with Mr. H. C. Brierley in the chair. Messrs. J. Swire, C. Fielding, G. M. Cobb, B. C. Hodgson, J. E. Binns, W. R. Fielding, G. Dixon, and R. V. Sutcliffe were also present. After discussion it was decided to employ a solicitor to oppose the granting of external licences for the sale of horticultural and agricultural poisons. The Chairman, Mr. Dixon, and Mr. Black were appointed to instruct the solicitor, and Mr. Dixon was also re-elected storekeeper.

**Chemists' Assistants' Association.**—At the meeting of this Association, held at 73 Newman Street on April 15, impromptu debates were the order of the evening. Among the subjects discussed were a letter by Mr. Joseph M. Dowty re the Association (which the members decided to ignore), "The Ultimate Position of Woman in Pharmacy," "The Restriction of the Name 'Pharmacy,'" and "How Can the Demands of the Big Advertising Firms be Resisted?" Opinions proved to be very much divided as to woman's place in pharmacy, while no panacea was evolved to oust the persistent advertiser of proprietary preparations among the medical fraternity.

**Huddersfield.**—The monthly meeting of the Huddersfield Chemists' Association was held at the Queen Hotel on April 20, Mr. R. C. Washaw, the President, in the chair. The President reported that in consequence of steps taken by the Pharmaceutical Defence Union, an objectionable trade advertisement which had appeared in a local paper had been withdrawn. A discussion ensued upon the use by purchasers of aerated-water bottles for ammonia, paraffin, hydrochloric acid, etc. The practice, it was pointed out, is attended with considerable danger and frequently led to deaths by misadventure. In regard to the new Poisons Schedule, it was suggested that firms producing proprietary medicines containing poisons should be requested to state under which part of the schedule the medicines are to be treated.

**The Annual Supper** of the Bath and District Pharmaceutical Association was held on Thursday, April 15, at Fisher's Restaurant, when a good attendance of members sat down to an excellent repast. The President of the Association, Mr. E. W. Loveless, occupied the chair. After the loyal toasts had been duly honoured, Mr. B. John proposed "The Pharmaceutical Society," which was responded to by Mr. W. J. Hallett. The health of the visitors was honoured on the proposition of Mr. A. C. Olds, and Mr. Boorne, of Bristol, acknowledged. The Chairman's health was also toasted, on the proposal of Mr. A. L. Snow. An excellent programme of music was arranged by Mr. J. Cooper, and was contributed to by Messrs. D. J. W. Williams, J. Cooper, J. G. Riches, A. Snow, J. G. H. Hawes, E. W. Loveless, and W. Hunter, while Messrs. J. Cooper and J. G. Riches acted as accompanists.

**Edinburgh Assistants.**—The thirty-first annual business meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association was held at 36 York Place, Edinburgh, on Wednesday, April 14, at 9.15 p.m., Mr. David Murray (President) in the chair. The annual report showed that the membership was well maintained, but the average attendance at the meetings was meagre and not satisfactory. The death of Mr. James Buchanan was referred to with regret. The financial statement showed a balance in hand of 1*l.* 6*s.* 5*d.* The report and statement were approved, and a guinea was voted to the Pharmaceutical Benevolent Fund. The following were elected office-bearers for next session: President, Mr. E. J. Brown, Ph.C.; Vice-President, Mr. George Elliot;



Secretary, Mr. Henry Stout, 20 Parsons Green Terrace; Treasurer, Mr. Arthur Collier; Assistant Secretary, Mr. J. Cunningham; and as members of committee, Messrs. Douglas Watson, Blackhurst, Mackie, Orr, Murray, Rowland, and G. D. Reid; Prize Committee, the President, Vice-President, and Secretary, with Messrs. D. Murray, A. Currie, and D. McEwan.

**The New Act Discussed.**—A meeting of the West Ham and District Association of Pharmacists was held at Earldam Hall, Forest Gate, on Thursday, April 15, at 3 p.m., Mr. H. Soper (President) in the chair. Others present were Messrs. Blades, Cleland, Cocker, Eastman, Howell, Johnson, Matthews, Middleton, Mitchell, Neale, Potter, Reed, Sandy, Stott, and Evans (Hon. Secretary). After correspondence and other preliminary business had been disposed of, Messrs. Raine and Johnson were re-elected auditors, and it was decided to meet at 3 p.m. in future instead of 3.30. Mr. Blades then opened a discussion on the Poisons and Pharmacy Act, which he regarded as a great improvement on the old Act, and if the provisions are enforced it will be the beginning of a new era in pharmacy. He considered that the bad drafting of the Act will provide employment for lawyers for some time to come. Mr. Cleland followed with criticisms on the Poison Schedule. As to homeopathic remedies, he was afraid that those containing aconite would have to be signed for. Mr. Eastman offered to write to the makers of these preparations asking for information on the subject. A discussion followed, and the President, Messrs. Matthews, Mitchell, Potter, Eastman, Middleton, Stott, and the Secretary took part in it. On the motion of Mr. Cleland, seconded by Mr. Matthews, it was agreed that members should report any breaches of the Act to the Association.

#### Portsmouth Pharmacists' Association.

The weather on Wednesday afternoon, April 21, was more favourable for a country ramble or a trip on the Solent than for an indoor meeting, so that there can be no doubting the interest taken in their association by the score of pharmacists who met at the Victoria Hall, Portsmouth, at 3.30 p.m., under the presidency of Mr. T. H. Crusc. Even these zealous members cast longing glances at the sunlit scene without, and it is not surprising that a decision was arrived at putting the Association into a state of *relâche* until October. Messrs. Charles Upson and G. Braid, of Gosport, were elected members.

**POISON LICENCES.**—The report of Poisons Sub-committee (Mr. T. O. Barlow, Secretary) was presented. A number of letters were read and the replies from the Town Clerk and other officials were considered by the members present to be very satisfactory. The sub-committee were congratulated on the success of their operations. The President stated that so far no licence had been granted in the area, and that while they were looking after the interests of pharmacists in the town the country members are not being neglected.

**SOCIAL.**—On the suggestion of Mr. T. A. White (Vice-President) a small committee was appointed to make arrangements for a dinner in the autumn and for a summer outing, the proposal of Mr. W. O. Smith (Fareham).

A circular letter from the British Pharmacists' Association was brought forward for consideration, but by this time the holiday spirit had seized the company, wit and humour were rampant, the President beamed even more genially and announced the meeting to be over.

#### Aberdeen Pharmaceutical Association.

A SPECIAL MEETING was held on Wednesday, April 14, at which a letter was read from the Secretary of the Federation of Local Pharmaceutical Associations asking that the proposals of the Plymouth Association for the reconstruction of the Federation should be submitted for the consideration of the meeting. The following report of the Executive Committee was submitted, and after discussion was approved and ordered to be transmitted to the Secretary of the Federation as the finding of the meeting:

##### *Reconstruction of Federation of Local Pharmaceutical Associations.*

The suggestions made by the Plymouth Association, with this end in view, seems both inpolitic and impracticable. The title proposed to be given to it shows this clearly—viz., British Association of Pharmacists (with which is incorporated the Federation of Local Pharmaceutical Associations).

This is an attempt to combine, in an Association mainly composed of individual members, a number of local Asso-

ciations whose constituents may or may not be members of the proposed new Association, a plan that would speedily prove unworkable. At least no workable plan is suggested, and it would mean, if carried out as proposed, not the reconstruction of the Federation, but its absorption in a new organisation. Any reconstruction must proceed on present lines if it is to be successful in enlisting the interests and support of the local Associations, and so it seems needless to discuss the Plymouth suggestions further. Whether it were better to let the Federation drop out of existence or reconstruct it is not just ripe for consideration, and it may be left as at present for some time longer, until it is seen what the Pharmaceutical Society may do, or leave undone, in connection with the new Act, and the interests of pharmacists therein. Until we have this knowledge it is impossible to say on what lines it should best be reconstructed, so that meantime the present organisation should be kept up, as it will be easier to start afresh from such a nucleus than to form a similar organisation in the future should it be found requisite to make good anything that may be found lacking for safeguarding our interests in the new Act.

The present objects of the Federation, as stated in the constitution, are too nebulous to inspire any enthusiasm concerning them, and something more definite and practical will have to be struck out for it if it is to have the sympathy of local Associations in any reconstructed form.

#### Sheffield Pharmaceutical and Chemical Society.

A MEETING was held at the rooms of the Sheffield Literary and Philosophical Society, Church Street, on Wednesday evening, April 21, Mr. R. D. Douglas (President) in the chair. There were present Messrs. G. T. W. Newsholme, G. Squire, H. Antcliffe, J. G. Jackson, A. H. Culverhouse, C. O. Morrison, G. E. Scott-Smith, F.I.C., F.C.S. (City Analyst), G. B. Brook, J. B. Pater (Hon. Sec.), H. G. Williams, F. Medley, C. H. Hewitt, T. H. Fox, T. Williams, and C. E. Mareden.

Mr. John Evans, F.I.C., F.C.S. (City Analyst for York), read a paper on

##### PRESERVATIVES AND COLOURING MATTER IN FOOD.

The author having spoken about the changes which occur in flesh food and the means of prevention which man has resorted to from the earliest times, grouped these means as (1) desiccation, (2) refrigeration, (3) aseptic treatment, and (4) antiseptic treatment. The following are some of the more interesting passages of the lecture:

The process of desiccation is now being largely applied in the preservation of milk, for which there are several patent processes. In one the milk is spread in a very thin layer over a heated revolving metal drum; evaporation is so very rapid that the milk is protected from actual contact with the drum by a layer of vapour, and the thin, solid film that is produced is continuously removed and reduced to a powder. The milk is thus sterilised by the heat employed, but as it is afterwards exposed to the atmosphere the product is not aseptic. From this powder a fluid milk is readily obtained by dilution with the requisite amount of hot water; it has more or less the taste of boiled milk, and when it is examined under the microscope it will be seen that the fat-globules are much larger than those of natural milk. In fact, the fat-globules have coalesced, and are thus not in such an assimilable form as in natural milk.

In regard to the use of antiseptics in food, at the present time public taste seems to be averse to heavily salted food, and such large quantities of salt as 7 per cent. would not now be tolerated. Salt differs from all the other principal chemical preservatives, not only in being an absolutely essential article of diet, but also in occurring in considerable quantities in the human body, especially in the fluid tissues. The acid radicle of the salt is required for the formation of hydrochloric acid, without which peptic digestion would not be efficiently carried out. With the exception of salt the chief chemical antiseptic agents employed in the preservation of food are boric acid and borates (so-called boron preservatives), sulphurous acid and sulphites, salicylic acid, formaldehyde, benzoic acid and benzoates, and fluorides. The uses of each of these were referred to, as well as the inquiry of the Local Government Board Committee in 1899, which dealt with the use of preservatives and colouring-matter in food, whose recommendation was to the effect that use of any preservative or colouring-matter whatever in milk offered for sale be constituted an offence under the Sale of Food and Drugs Acts, but this has not been enforced owing to difference of opinion among authorities.

The lecturer also referred, in conclusion, to the use of colouring matters in foods.

The President, in opening the discussion, said that they were particularly interested in Mr. Evans's remarks on

dried milk, considering the amount which was being sold in the town as a result of the recommendations of the City Council and the medical men, Mr. Evans's remarks pointing to the fact that it was not so much used as was urged.

Mr. Antcliffe asked if Mr. Evans thought that a small quantity of boracic acid in milk was worse for children than dried milk. He could not imagine any scientific man recommending dried milk for young children, and especially he thought that in the poorer neighbourhoods, where they had no accommodation for storage, the addition of a small quantity of boracic acid had an advantage which more than compensated for any disadvantage which might accrue.

Mr. Jackson suggested that the globules of fat were so large as a result of too rapid evaporation, and as they were larger in some samples than others, it was thought the difficulty might be got over by evaporating more slowly.

Mr. Newsholme, in moving a hearty vote of thanks to the lecturer, referred to the process of preparing dried milk, and said that his experience led him to believe that the large globules were caused by the extreme heating to which it was submitted. Experiments showed the difficulty of making dried milk to correspond with ordinary and fresh milk, and he was surprised at the extent to which it had been boomed, as it could not be made to correspond with fresh milk. Experience showed that children fed on dried milk often needed a corrective in the shape of acid fruit. With regard to the question of preservatives generally, he thought there was not very much harm in the preservation of meat by the use of boracic acid.

Mr. Morrison, in seconding the vote of thanks, said that he had seen samples of dried milk where the fat globules were ten to fifteen times larger than those existing in the natural form. He thought boracic acid harmful even in small quantities, and he quoted cases in support.

Mr. Pater, in supporting, asked if Mr. Evans thought chemists were justified in preserving drugs by the addition of preservatives, as, for example, B.P. mucilage by the addition of chloroform.

Mr. Evans replied to the questions, and the proceedings terminated.

## French News.

(From the "C. & D." Paris Correspondent.)

**THE LOCUM'S SALARY.**—The "A.A." (Amical Association of Pharmacy Students) is reminding pharmacists that it "has several times voted a resolution to the effect that the salary of a *locum* should be raised to 7*l.* per diem, or 5*l.* for a half-day, with board and second-class railway fare."

**AWARDS.**—M. Duvallet, pharmacist at l'Isle Adam, has been awarded a bronze "Epidémie" medal for his special and personal exertions in preventive and disinfection work during recent epidemics. Two other pharmacists, MM. Constant Olivier and Léon Delpech, are honourably mentioned in the same connection.

**MEDICINAL WINES.**—Under the above title, the following phrase occurs in the new Codex :

The following wines are used: Dessert wines (Malaga, Madeira, etc.), containing a minimum of 15 per cent. of alcohol.

The exact interpretation of this expression having been demanded by numerous pharmacists, the Codex Committee replied that in adopting the above text it "did not mean to restrict the choice of the pharmacist to wines of the origin named, but to require the use of a well-known type of wine, not susceptible of being fermented or changed by the addition of the medicament."

**ASSISTANT PROFESSORSHIPS.**—A competitive examination will be held in Paris on May 3 for an assistant professorship of natural history and pharmacy at the Paris Superior School of Pharmacy. The subjects are: (1) Methods of testing pharmaceutical extracts; (2) preservation of, and alteration in, chemical and galenical medicaments; (3) proteolytic ferments and their pharmaceutical preparations; (4) the pharmaceutical uses of mineral and organic phosphorus; (5) colloidal medicinal substances; (6) essential oils employed in pharmacy.

**EMPLOYERS' LIABILITY ACT.**—The question of pharmaceutical expenses under this Act continues to be warmly discussed, and the Roubaix Chamber of Commerce publishes a long comparison of the French and Belgian systems, showing that in Belgium matters are more satisfactory from the employer's point of view. There a maximum tariff exists for pharmaceutical expenses, which must not exceed, for a week's incapacity, 5*l.*; for three months', 40*l.*, and so on. If the Belgian law were adopted in France it would probably handicap the doctor more than the pharmacist.

**MEMS. FROM THE PYRENEES.**—Things seem fairly satisfactory both at Pau and Biarritz. The peculiarity of Biarritz pharmacy is still that no pharmacy there is actually "run" by a qualified Englishman. The custom appears to be to employ a fully competent English pharmacist as assistant, and his name is conspicuously announced as a guarantee of good faith. For instance, at Taupin's International Pharmacy, Mr. Donaldson, M.P.S., is thus advertised; at Cussac's Grande Pharmacie de Biarritz, Mr. G. Morgan; and at Etchepare's, Mr. Robert, M.P.S., and so on. About 12,000 tourists visit Biarritz yearly, of whom roughly one-third are British, one-third Spanish, and one-third other nationalities. There are two English doctors—Dr. Barnard and Dr. Malpas—and nearly twenty other practitioners, including oculists, dentists, etc. Two of the dentists—Messrs. Edwards and Peake—are also English. "King Edward's Nursing Home," in the avenue named after Queen Victoria, is now fully organised. It was founded by the King's suggestion to secure to Biarritz doctors and patients the services of trained certificated nurses from Guy's.

## Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6*d.* each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

### New South Wales.

**WAGES BOARD.**—The Shop Assistants' Union applied for the appointment of the members of the Wages Board without election at the Industrial Arbitration Court on March 4. The case occupied the Court for part of two days. Judge Heydon reserved his decision. His Honour, during the progress of the case, said the main question to decide was the problem of unionists and non-unionists. This is the first case under the new Act, and the first where the non-unionist section have appeared in court in opposition to unionists. After the proceedings the general opinion seemed to be that the Judge would recommend the appointment of Messrs. C. J. Carroll and L. M. Pattinson, nominated by the masters, and one member each from the Pharmacists' Assistants' Association and the Shop Assistants' Union.

### New Zealand.

**LAUDANUM IMPORTATION.**—The "New Zealand Gazette" of February 4 contains an Order-in-Council prohibiting the importation into New Zealand of any fluid preparation of opium containing a greater quantity of extractive matter than tincture of opium prepared according to the Pharmacopoeia of the United States of America.

**MEDICAL ASPIRATIONS.**—Dr. T. C. Moore, Napier, President of the New Zealand branch of the British Medical Association, opened the annual meeting on February 22 with an address dealing principally with the evils of patent and proprietary medicines. The remedy for the evil, he said, is to educate the public and publish the formulæ of these medicines. A general discussion took place on the "Protection of the Public." One medical man, Dr. Stevenson, Christchurch, had a lot to say about sight-testing opticians. He would apparently like sight-testing and the supply of spectacles reserved for medical men.

### Tasmania.

**RECIPROCITY.**—In reference to the reciprocity clause (C. & D., March 27, p. 481), we understand that it is not



intended to grant certificates of competency to the men who have only passed the practical or Modified examination.

### Victoria.

A SATURDAY HALF-HOLIDAY is definitely provided for in a Bill now under discussion in the Legislative Assembly. The new feature is that, while fourth-schedule shops are excluded, yet the half-holiday may be applied, by a vote of the majority taken under the usual provisions of the Factories and Shops Act, to shops mentioned in the new schedule to this Bill, including butchers', bakers', pawn-brokers', hairdressers', flour, and bicycle shops. Pharmacists are thus not to be allowed a compulsory half-holiday even if they vote for it.

LEAD ARSENATE AS A SPRAY.—A firm who are pushing in Victoria the sale of lead arsenate as a fruit-tree spray object to the operations of the Poisons Act, under the provision of which it is an arsenical preparation, and may be sold only by registered pharmacists and licensed vendors. The matter was discussed with the Chief Secretary of Victoria on February 25. The Under-Secretary (Mr. Calloway), the Secretary of the Pharmacy Board (Mr. H. W. Shillinglaw), and Dr. Norris (Chairman of the Board of Public Health) were in attendance. Although no evidence of serious illness has been traced to the use of the spray on fruit-trees, Dr. Norris thought it better that the sale of the preparation should be confined to registered storekeepers and chemists, and that the label used should be approved by the authorities.

### Western Australia.

PHARMACEUTICAL SOCIETY.—The annual meeting of this Society was held in Perth on March 31. The Pharmaceutical Register and report of the Council were issued as usual. The Register gives the names of those registered under the Pharmacy and Poisons Act and of those who are entitled to sell poisons. The report of the Council is a review of the work done during the year, and includes references to reciprocity and the Brisbane Conference, whereat the Australasian Pharmaceutical Conference was formally constituted.

## South African News.

(From the "C. & D." Correspondents.)

### Cape Colony.

PROSECUTING AN UNQUALIFIED PARTNER.—In the Resident Magistrate's Court at East London last month, before Mr. McDonald, Allen McLeod, a partner of the firm of Messrs. Jamieson & Co., carrying on business as chemists and druggists at the Waverley Drug-stores, Oxford Street, East London, was charged with contravening the Medical and Pharmacy Act by dispensing and selling poisons without possessing the necessary certificate. Mr. J. L. Rubidge deposed that on January 14 he wrote a prescription for a Miss Thompson containing two scheduled poisons. He personally handed the prescription to the lady. Hubert J. McJannet, an apprentice with his father, Mr. James McJannet, Ph.C., Oxford Street, stated that on February 6, between 9 and 9.30 A.M., his father gave him the prescription, which he took to Jamieson & Co.'s Waverley Drug-store. Mr. Jamieson was not on the premises, and accused went behind the dispensing-screen and made up the prescription, for which witness paid 5s. Witness said his father had two qualified assistants, and it was quite possible to have had the prescription dispensed at his father's pharmacy. Mr. H. M. Stone (the defendant's solicitor): Didn't you act simply as a trap?—"Yes," witness replied, and added, "It was done on behalf of the public" and (later) "the Pharmaceutical Society of Cape Colony."—Mr. Stone: Can you produce your instructions?—Witness: No, but my father is a member of the Society. Witness further admitted that the prescription was made up previously by his father, and when he went to the accused he did not represent that he came on behalf of Miss Thompson. Mr. Geo. Cowe Jamieson said he was a qualified chemist, and the licence for the premises was in his name. Accused was not a licensed chemist. Witness was

in the shop about 9.30 A.M. on February 6, but did not remember Mr. McJannet coming into the premises. Mr. Stone said that accused was formerly employed by Lennor, Ltd., and had been twenty-one years in the profession. Accused had entered the prescription in the prescription-register. A remand was then ordered to enable the evidence to be procured from the Colonial Secretary to the effect that accused did not hold the necessary certificate.

### Transvaal.

MEDICINE AT NIGHT.—Two Johannesburg chemists, signing themselves "Suburban Chemist" and "Suburban Pharmacist," reply to the recent correspondence in the "Transvaal Leader" on the above subject (*C. & D.*, April 17, p. 588). The former states that suburban pharmacies are necessarily single-handed. The stores do not want night trade, since it does not pay, so that the retail chemist with a dwelling adjoining his premises renders this thankless service to the public. Also that the pharmacist cannot make a bare living from his dispensing practice unless the number of chemists be limited according to the population, as in some European countries. The latter states that no one ever called at night for medicine without getting it, but that since the early-closing order in Johannesburg his business has departed to the centre of the town, people buying their requirements before returning, as his pharmacy is closed at 8 P.M. His assistant, after accepting half-salary for a time, had eventually to leave, since he was unable to pay even that amount, and the business will have to be closed down.

## Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Mr. Temple Franks, Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(From the "Trade-marks Journal," April 7, 1909.)

"LEAUDOR"; for prepared food (42). By K. Arthur Behenna, 38 Markham Square, London, S.W. 309,450. (*Correction.*)

(From the "Trade-marks Journal," April 14, 1909.)

"SETLENE"; for calcium-carbide blocks or cakes (1). By C. C. Wakefield & Co., 27 Cannon Street, London, E.C. 311,078.

"FLAMMA BRAND," and triangle device with hand holding flame; for all chemicals (1). By F. S. B. Clanahan & Co., 79 Mosley Street, Birmingham. 303,631.

"HUNTER'S CARBOLIC SOAP KILLS MICROBES" and "HUNTER'S ANTISEPTIC DRY SOAP," and picture of nurse; for carbolie soap (2) and common soap (47). By Richard Hunter, 38 Hawcoat Lane, Barrow-in-Furness. 307,891, 307,892.

"CAYOL"; for chemicals (2 and 3). By Pearson's Antiseptic Co., Ltd., 15 Elm Street, London, W.C. 308,170, 308,216.

"PHENOID"; for disinfectants (2). By Morris, Little & Son, Ltd., 13 Priory Place, Doncaster. 310,824.

"FETCHSTONE"; for a medicine (3). By K. J. Le Bas, 308 Earl's Court Road, London, S.W. 307,503.

"ANSOREM"; for an ointment (3). By J. Griffin, Cookley, near Kidderminster. 309,287.

"GUIPSINE"; for a pharmaceutical preparation (3). By M. Leprince, 62 Rue de la Tour, Paris. 310,351.

"MIN"; for a medicine (3). By the Min Co., 266 St. Helen's Road, Daubhill, Bolton. 310,862.

"TOC-FIS"; for an ointment (3). By Robert Shipcot, 6 Bank Street, Chorley. 311,102.

"PARVEX"; for photographic apparatus (8). By the London Stereoscopic and Photographic Co., Ltd., 106 and 108 Regent Street, London, W. 309,719.

"CRYSTALL"; for indiarubber teats (11). By Otto Dillner, Torgauerstrasse 30, Leipzig-Neusellerhausen. 308,529.

"ROUGO"; for clinical thermometers (11). By Burgovne, Burdidge & Co., 12 and 16 Coleman Street, London, E.C. 310,553.

"LIMETTS"; for sugar-confectionery (42). By Woolleys, Ltd., King Street, Blackburn. 310,468.

"SANTOLIC"; for all goods (47). By Price's Patent Candle Co., Ltd., 31 Threadneedle Street, London, E.C. 310,236.

- "LISO": for liquid soap (47). By Mermod Frères, 2 Avenue des Alpes, Sainte Croix, Switzerland. 310,373.
- "BERSET": for goods in Classes 47 and 48. By Associated Exports Co., 56 Ferry Street, Newark, New Jersey. 310,495, 310,496.
- "BRIOLETS": for all goods (47). By T. Kerfoot, Oldham Road, Bardsley, Ashton-under-Lyne. 310,743.
- "SAXON" and monogram shield device: for all goods (48). By Charles & Co., Gauntley Street, New Basford, Nottingham. 309,363.
- Facsimile signature, "W. BURNELL": for perfumery, etc. (48). By W. Burnell, 2 Randall Street, Sheffield. 303,385.
- "VIA-LONE": for perfumery, etc. (48). By E. B. Dive & Co., 46 Old Gravel Lane, London, E. 310,202.
- "CLARIBELLE": for all goods (48). By Pannett & Neden, 210 Stewart's Road, London, S.W. 310,451.
- "MAXINE": for all goods (48). By F. J. Robinson, 30 Whitehead's Grove, Chelsea, London, S.W. 311,270.
- "PARLORINE": for a polishing preparation (50). By Jane G. Lee, Whalley Road, Accrington. 309,418.

## Sudan Gums.

IN a former article (*C. & D.*, 1906, II., p. 520) dealing with the second report of the Wellcome Research Laboratories at the Gordon Memorial College, Khartoum, we gave interesting particulars concerning gum production and collection in the Sudan. The third report gives new facts and adds many other details to the older work. The principal Sudan gum exported is that from *Acacia Ferek*, which grows chiefly in the barren sandy soil of the Kordofan province, and is locally known as "hashab." This species is said to be identical with *Acacia Senegal*, Willd. (which yields Senegal gum). Probably no Sudan industry is more poorly paid than that of gum-collection, which is a secondary matter until after the harvest has been garnered. In consequence, the trees, which are ready for tapping early in the autumn, after the cessation of the rains, are tapped later, so that the season of exudation, which ends in May, has only a duration of four months. This delay may possibly affect the quality and quantity of gum. Geneinas (gardens) yield almost the whole of the commercial gum from tapped trees, "wady" (wild) or naturally exuded gum forming but a small proportion of the "hashab." As the collectors are forced to carry their own food, water, and the gum, which they collect during the driest season of the year, only geneinas situated within a reasonable distance of the very small number of wells which exist in the Kordofan district are operated with ease. Those further away are only incompletely worked with great difficulty, and the collectors do not go further than necessity compels them. The tapping is performed by cutting the bark with a small axe and tearing off a thin strip 2 ft. to 3 ft. long and 1 in. to 3 in. wide. The incision should not penetrate into the wood, a thin strip of the inner bark being left to cover it. With the usual methods the tree will not stand tapping oftener than once every alternate year, and experiments show a much better yield with the ordinary mode of tapping than when numerous cuts or shorter strips are made. Trees artificially inoculated by rubbing a moist rag over the bark and then into new gashes gave a much decreased yield of gum, while cold at the time of tapping also has a great retarding effect on gum-production. Experimental tappings in three gardens on various-size trees between February and May inclusive, and the exudations collected at intervals of one to three weeks, show that as the season advances the proportion of harder glass-like gum produced varies considerably and increases markedly towards the end. However, the harder gum was not the hard strong gum (Khartoum gum) of high viscosity strength, formerly picked from Sudan mixed gum. The harder tears, especially those of the earlier collections, as also the whole of the gum, although apparently dissolving in weak solutions (5 to 10 per cent.), in higher concentration yield a glairy mucus-like liquid, from which separates a solution of lower viscosity. On storing, an alteration occurs usually at the end of

three or four months, the gum becoming perfectly soluble even in the highest concentrations. Senegal gum may exhibit the same phenomena, one sample requiring two years to become completely soluble. The solubility and viscosity of gums should accordingly be always determined in at least a 20-per-cent. solution. The gum from the older trees exhibited a slightly higher strength than that from younger trees, which is contrary to the statements of gum-collectors. At the same time, no hard strong gums were found in any of the collections. Its absence, however, may be explained variously—by local conditions as to soil, height of water table, etc. It is exuded (1) only when tapping is performed immediately after the rains had ceased, or (2) in certain years under appropriate conditions of temperature and rainfall. As regards these conditions, "hashab" trees well supplied with water during the drier season fail to produce gum, while the gum-dealers state that the hard strong gums come to them in far larger quantity during November and December. Instructions for tapping trees experimented on in October had been given, but through a misunderstanding they were not carried out.

A detailed chemical examination by Mr. E. S. Edie of a series of six samples of gum from the same set of trees shows that, in spite of the different season of collection and the differences in the proportions of friable and hard glassy gum, the products of hydrolysis (pentoses and hexoses) are practically the same throughout, while the specific rotation of "hashab" gum in aqueous solution and after hydrolysis with sulphuric acid is almost a constant. A non-motile organism with marked bi-polar staining was also isolated from branches exuding "hashab" gum, which all gave practically a pure culture of the same organism. The bacteria stain well with both Gram's and Löffler's stain; and on Greig Smith's special media containing levulose, but omitting the tannic acid, they produced a slime. "Tahl" gum from *Acacia Seyal* occurs, owing to its exceedingly friable nature, in small pieces or fine powder, ranging from quite colourless gum through shades of yellow to brown and dark red. The gum, which is produced by natural exudation, sells readily at a lower price than "hashab" gum. It is frequently acid, and then produces a dark solution with a sour taste. A series of experimental tappings of red tahl trees resulted in a greatly increased yield and a very decided improvement in the quality of the gum. "Sunt" gum (the original gum arabic) from *Acacia arabica*, and the gums from *A. verugea*, *A. suma*, *Odina fruticosa*, *Combretum* species, and *Sterculia cinerea* and *S. tomentosa* are also briefly reported upon. The report is illustrated with several exceptionally fine plates which should be of service to pharmacognosists.

To these observations we may appropriately add that the Sudan Economic Board in its first year's work has devoted a good deal of attention to gum, with a view to facilitating and extending trade. As a result of dredging in the Nile bed at Dueim, the principal gum port on the White Nile, the cost of portage has been reduced, while a gum market has been made at the same place, and all brokers there are now licensed. The road-tax, weighing-fees, ground-rent, etc., formerly charged separately, have been consolidated into a single tax at so much per kantar of gum, and consideration is also being given to the possibility of reducing these charges. A covered enclosure for gum has been erected in Khartoum, new wells are being dug in Kordofan, so that gum-collectors can go further afield, and it is proposed to construct a telegraph-line from Dueim to Taira, one of the chief gum-producing districts.

Certain specially strong varieties of "hashab" and tahl gums have been discovered, and inquiry is proceeding as to whether these are obtainable in commercial quantities. Importers in the United States and Europe have notified the Board that they would like a cleaner gum than "ordinary Sudan sorts," and with a view to meeting this demand a gum-cleaning machine has been erected at Omdurman. Some manufacturers would, we believe, welcome also gums of more uniform colour than Sudan "sorts," if these could be put on the market at rates not greatly exceeding those obtained for Sudan "sorts." All this shows that the authorities are alive to the importance of the gum trade, and that they intend to maintain, and if possible improve, the hold that Sudan gum now has on the market.



## Trade Report.

**NOTICE TO BUYERS.**—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., April 22.

**B**USINESS has now been fully resumed in the markets, and the fact that several important auctions of produce have been held has extended the volume of trade in a few articles. The consuming demand, however, continues limited, sales being mostly of a jobbing character. The chief alterations among chemicals include a substantial decline in pyrogallie acid, and a lesser one in hydroquinone as the result of competition among makers. Crude China camphor has been sold at higher prices, and refined is very firm. Cream of tartar has been in slightly better demand at unaltered rates. Quinine is unaltered. Nitrate of soda is firm at a slight advance, and ammonia sulphate is easier. Crude drugs, apart from the auctions, present few changes. Balsam tolu is steady, but copaiba, in sympathy with the United States, is easier. Cascara sagrada is still tending firmer, with quiet buying. Buchu is excessively scarce, no round green being on offer. Gentian has arrived more freely, but is wanted. Cod-liver oil has an easy undertone, the volume of business being appreciably less as the summer approaches. Cinchona at auction went off steadily, the bulk selling immediately after the auction. Castor oil is dearer. In opium a large business is reported from Smyrna at lower rates, and, on the spot, prices are irregular, holders' opinion as to the future varying somewhat. The changes have been as follows:

Higher	Firmer	Easier	Lower
Camphor (China cr.)	Cascara sagrada	Ammonia sulphate	Chillies
Resin	Castor oil	Areca	Hydroquinone
Sarsaparilla	Fenugreek- seed	Benzoïn (Sumatra)	Pyrogallie acid
(Native and Lima)		Cardamoms	Shellac
Soda nitrate		Copaiba	
		Dragon's-blood (good)	
		Gamboge	
		Nutmegs	
		Pimento (c.i.f.)	
		Wax, bees' (Jam.)	

### Cablegrams.

**SMYRNA, April 20:**—Contrary to sellers' wishes, the bankers have sold 170 cases extra Karahissar t.g. opium at the equivalent of 11s. 6d. per lb. Apart from this, holders maintain 12s. per lb. as the price of this quality.

**BERGEN, April 21:**—The cod fishing at Finmarken has proved very prolific, and the market for finest non-congealing cod-liver oil is quiet at the equivalent of 63s. to 64s. per barrel c.i.f. terms.

**NEW YORK, April 22:**—Business in drugs is moderate. Opium has an easy tone at \$4.25 per lb. for druggists'; jalap is firmer and advancing at 35c. per lb.; peppermint oil in tins is steady at \$1.45, and copaiba is easier at 47c. for Central and South American; Canada balsam is steady at \$7 per gal., and cascara sagrada is also steady at 8½c.; ipecacuanha has advanced to \$1.20 for Rio, and hydrastis (golden seal) is quiet at \$1.80 per lb.

## Manchester Chemical-market.

April 20.

There was a fair attendance on the chemical side of the Manchester Exchange, and as many buyers were present there was every indication that more interest is being felt in business than was the case a week ago. On export account there is a continuance of the better feeling in alkalis generally, but in some respects there was a rather weaker tendency in miscellaneous goods. In sulphate of copper there is no improvement, but as the quantity in secondhands is reported small we do not expect to see much change. Spot quotations are 18l. 5s. to 18l. 15s. per ton, best brands, delivered here. All lead products have an upward tendency, nitrate being about 25s. per ton higher. Sulphate of iron (green copperas) is rather quiet. Caustic and carbonate of potash are steady. Acetate of lime is firm at full rates for both English and foreign. White powdered arsenic is unchanged. Cream of tartar and acids are quietly steady, the feeling being on the easy side, however. There is less movement in coal-tar products. Sulphate of ammonia has dropped 2s. 6d. per ton since Friday, and is quoted 11l. 2s. 3d. to 11l. 3s. 9d. per ton on rails, Manchester.

### Continental Drug and Chemical Markets.

**ACETIC ACID.**—The signs of a firmer feeling which were noticeable in February have now crystallised into an advance of several marks per 100 kg. The tone of the market for raw material is steady, and as a more active season is approaching the possibility of a still higher rise is anticipated.

**BROMIDES.**—Negotiations are on foot for the admission into the Convention of the Kali Works, Krügershall. Meanwhile, however, the company declare the allotment offered to be too small.

**CARNAUBA WAX.**—The large supplies shortly expected have influenced buyers, and prices are 2.50m. lower for grey qualities. Goods for shipment are somewhat cheaper, though Brazil refuses to sell at the prices quoted in Hamburg. Quotations are as follows: Current grey 187.50m., fatty grey 197.50m., per 100 kilos., net.

**CITRIC ACID.**—The tendency of the Hamburg market is decidedly firm, and considerably higher prices may be counted on when consumption really sets in. Local goods are offered at 2.95m. per kilo., though contracts for the whole year are offered at lower rates.

**ERGOT.**—Market conditions have somewhat improved, as some of the cheaper lots which unfavourably influenced the market have now been sold for manufacturing purposes. Generally the market is firm, Russian being offered at 3m. and Spanish at 3.10m. per kilo.

**LYCOPIDIUM.**—The demand in Hamburg has slightly increased; 3.20m. per kilo. has been paid for bags and 3.30m. for cases.

**QUILLAIMA.**—Steady. Chili has sold a large proportion of its supplies to European markets, and an endeavour is being made to keep up the high prices. Bids for shipment at 64m. to 65m. remain unanswered. Spot (Hamburg) goods cost 67.50m., and some small lots have been sold.

**TARTARIO ACID.**—Owing to warmer weather the demand has improved, but the market for raw material is still under the influence of the good vintages of 1907 and 1908 and the general economic depression. The prospects of the vintage for the coming year, however, are considered much less promising.

**VANILLIN.**—There is no uniform price, and competition continues very keen, with offers at 30m. per kilo.

**ACID, PYROGALLIC.**—As a result of competition all the makers have reduced their prices, the decline being about 1s. 4d. per lb. Quotations, however, vary somewhat, the minimum price for crystals in 7-lb. tins being about 3s. 9d. per lb., but some makers quote a little higher and others ½d. less than the above. One-lb. tins are 4½d. and 1-oz. bottles 2s. per lb. more than the above. The minimum price for resublimed is 4s. 5d. in 7-lb. tins, 1-lb. tins being 4½d., and 1-oz. bottles 3s. 4d. per lb. more. Schering's now quote resublimed in contract quantities at 9s. 8d. for 500-oz. lots for delivery over six months, and Crystals on the same basis at 6s. 2d. per lb. net, with larger quantities at a proportionate reduction.

**ACONITE.**—Spanish is offered at 41s. c.i.f.

**ANISEED.**—The quotations are unaltered at 19s. to 20s. per cwt. for Russian, and 35s. for Spanish.

**ARROWROOT.**—At auction 20 kegs of Bermuda were offered and 12 sold at 2s. 1d. per lb. Of St. Vincent 238 barrels were offered and bought in at from 2d. to 2½d. for medium to good manufacturing.

**BALSAM TOLU.**—Steady at 11d. for good hard B.P., with the usual reduction for slightly drossy and drossy.

**CAMPHOR (CRUDE).**—Dearer. Business has been done in China crude at 145s. spot and at 135s. c.i.f. for May-July

shipment. The monopoly quote B. grade at 140s. and B.B. at 135s. c.i.f. for May-June shipment.

The exports from Japan during January 1909 amounted to 106,691 kin, against 319,713 kin in January 1908 and 186,673 kin in January 1907.

CAMPHOR (REFINED) is firm at 1s. 8d. for 1-oz. Japanese tablets, which price has been paid, and for May-June shipment this size has been sold at 1s. 6½d. to 1s. 6¾d. c.i.f. In the drug-auction ten cases Japanese refined (2½-lb. slabs.) were bought in at 1s. 10d.

CANARY-SEED is steady at 37s. 6d. per quarter for all grades of ordinary quality, but the market is quiet. Good to fine Spanish is quoted 65s. to 77s. 6d. per quarter.

CARAWAY-SEED is unchanged at 39s. to 40s. per cwt. for ordinary to good Dutch on the spot.

CHILLIES.—Lower at auction, 356 bags of Japanese offering, of which 216 sold without reserve at from 34s. to 35s. for good bright red, a few perished. Good Zanzibar were bought in at 42s. 6d. and fair Mombasa at 40s.

CINCHONA.—At auction on Tuesday 497 packages were offered of which a fair proportion sold at and after the auction at steady rates, the average unit being ¾d. to ¾d. per lb., the quantities offered and sold being as follows:

	Packages offered	Packages sold
East Indian cinchona	273	125
Ceylon cinchona	175	5
Java cinchona	44	44
	497	174

The following were the purchases by the various buyers:

	lb.
The Brunswick factory	8,445
The Frankfort factory	7,480
The American and Italian factories	3,550
Howards & Sons, Ltd.	3,130
Druggists, etc.	16,195

Total quantity sold	38,800
Bought in	33,848

Total quantity offered ... 72,648

The prices paid were as follows: Java hybrid stem chips 3d.; Ceylon, succirubra natural quilly chips, 3d.; East Indian, Ledgeriana stem chips, 1½d. to 2½d.; officinalis, natural quilly chips, 3½d. to 3¾d.; stem chips, 2¾d.; fair root, 3d. to 3½d.; fair broken quill, 4d.; and renewed quilly chips, 3½d. to 3¾d. Succirubra, natural stem chips, 2½d. to 2¾d., renewed quilly chips 3¾d. per lb.

The exports from Java to Europe during the first half of April amounted to 948,000 Amsterdam lb., against 548,000 Amsterdam lb. for the same period of 1908. The stock at Amsterdam in first hands on April 15 consisted of 14,321 packages private and 4,599 packages Government bark, including the 7,910 packages to be offered at the sale on May 6.

CLIVES.—At auction 50 cases and 300 bales of Zanzibar were bought in, including fair to good at from 4¾d. to 5d. per lb. Four bags Ceylon sold at 7½d. for good and 4¾d. for mixed stalky. Privately the market for Zanzibar is firmer but quiet, the sales including near at hand at 4½d. to 4¾d., and April-June shipment at 4¾d. c.i.f. d/w. June-August delivery has been sold at 4¾d. closing buyers.

COPAIBA is slightly easier in sympathy with the United States, there being spot sellers of Maraicaoiba (B.P. quality) at 2s. per lb.

COPPER SULPHATE.—On the spot 19l. is quoted, special makes offering at 19l. 10s., and in Liverpool 18l. to 18l. 5s. is quoted spot and forward.

CORIANDER-SEED.—The market is well supplied with old-crop Morocco, out of condition, which is going into consumption at 9s. 9d. to 10s. 6d. per cwt. On the other hand good sound quality is scarce, and this is realising 11s. to 11s. 6d. per cwt.

CUMIN-SEED.—Stocks are almost exhausted, but the price is unchanged at 45s. per cwt. for both Malta and Morocco.

FENUGREEK-SEED.—The quotation has been raised to 10s. per cwt., owing to depletion of stock.

GENTIAN.—An arrival of 86 bales has taken place from Spain, but it is practically all sold for delivery against contract.

GINGER.—Steady. At auction 117 packages of Jamaica sold, including fair to good washed at from 61s. to 69s., small washed at 58s. to 60s., and fair to good common at from 54s. to 57s. Of Cochin and Calicut 896 bags were bought in, fair to good washed rough at 40s. to 45s., fair brown Calicut at 45s., D. rough and fair cuttings at 40s. per cwt. Fair limed, slightly mouldy Japan was bought in at 35s.

HYDROQUINONE.—The makers have reduced the price by 8d. per lb., and now quote from 2s. 8d. to 3s. per lb. according to quantity.

JUNIPER BERRIES.—An arrival of 318 bags has taken place from Rotterdam.

LINSEED.—Fine quality is scarce, and the quotation of 50s. to 52s. per quarter is maintained.

LIQUORICE ROOT.—H.M. Consul at Batoum reports that the liquorice-root industry in that district prospered during the past year, the quantity of root collected in 1908 being very great and the exports from Batoum attaining unprecedented figures. The quantity of root shipped from Batoum in 1908 was 12,313 tons, an increase of 2,832 tons on 1907, and of 3,863 tons on 1906. There were large stocks of root in various depôts in the Caucasus and Central Asia at the end of 1908. Only a very small quantity of liquorice paste was shipped from Batoum in 1908. The factories that prepare liquorice paste are adapted to use mineral oil for fuel, and, as the latter during the year was expensive, the manufacture of paste was found to be unremunerative and had to be temporarily abandoned.

MACE.—Firm. At auction 27 packages of West Indian were sold, including fine pale at 2s., good pale at 1s. 9d. to 1s. 10d., fair 1s. 7d. to 1s. 8d., ordinary 1s. 6d., and broken 1s. 3d. to 1s. 4d. per lb.

OIL, BERGAMOT.—Quiet at from 17s. 6d. to 19s. 6d. per lb. c.i.f. according to brand.

OIL, CASTOR.—Dearer. Hull make is quoted 26l. 10s. for pharmaceutical and 24l. for first pressing in barrels for prompt delivery, July to September being offered at a premium of 5s., and October-December at a premium of 10s. on the above prices, ex wharf London, cases 50s. per ton extra. Belgian firsts is 24l. for firsts and 23l. 15s. for May-December delivery, all ex wharf London. In Liverpool good seconds Calcutta is quoted 2½d. to 3d. per lb., and Belgian firsts 2¾d.

OIL, CITRONELLA.—Exports from Ceylon during the quarter January to March, 1909, were 358,776 lb., against 147,700 lb. during the corresponding period of 1908; exports to U.K. were 174,664 lb., and to U.S.A. 139,866 lb. The London spot price is 1s. 1d. to 1s. 2d. for Ceylon.

OIL, COD-LIVER.—The London market continues quiet with an easy undertone, agents offering new Lofoten oil at from 63s. to 65s. per barrel c.i.f. according to brand, the business being retail at about these figures. The amount of buying on the part of distributors so far this season appears to have been below normal, existing stocks of the large 1908 crop not yet being worked off. There is still another six to eight weeks' fishing at Finmarken, and, given fine weather, it would not be surprising if the output eventually approximates that of last year. Our Bergen correspondent writes on April 19 that since his last report the Finmarken cod-fishing has continued in a very fair manner, but the production of cod-liver oil was hitherto proportionally small in that district. The total of all the Norwegian fisheries up to date is as follows:

	1909	1908	1907
Catch of cod (millions)...	37.9	34.2	34.2
Yield of cod-liver oil (barrels)	35,160	40,600	30,000
Livers for "raw" oils (hect.)...	12,250	11,630	11,000

A weak tendency still prevails, and finest non-congealing Lofoten cod-liver oil cannot be quoted above 63s. per barrel c.i.f. London, the quotation being somewhat nominal. The exports from Bergen up to date amount to 4,696 barrels, against 4,727 barrels at the same date of last year.

OIL, LEMON.—Prices vary greatly, and in some directions are easier at from 3s. 6d. up to 4s. 3d. per lb. c.i.f., according to brand, and on the spot 4s., and perhaps a shade less will buy.

OPIMUM.—On the London market there is a fair amount of business doing at very irregular prices, and it is difficult



to give quotations, prices varying according to whether the seller believes opium is going to be higher or lower. From Smyrna our cable announces an important sale at rather lower prices, and in Constantinople business has been done at prices showing no material change. The quotations for Turkey druggists' may be placed at from 12s. to 12s. 6d., and soft shipping qualities at from 13s. to 14s. 6d. spot. A Smyrna correspondent writes on April 10 that the market has been excited owing to the activity of American exporters, but only nine cases have been sold by holders, who, instead of considering themselves fortunate and taking advantage of the extra demand to sell off part of their stock, have declared they would not sell at ruling prices. The sales are seven cases new prima Karahissar t.q. at 10s. 8d. and two cases old ditto at 10s. 11d. c.i.f. European ports. The arrivals are 2,046 cases, as compared with 1,369 cases at the same period last year. This attitude of holders is probably due to the further 50c. tax to which opium will be subjected on entry into the United States after July 1. Another correspondent writes on April 17 that the sales for the week were 37 cases at 106 piastres for extra Karahissar and at 100 piastres for current qualities, or equal to 11s. 9d. and 11s. 2d. per lb. c.i.f. The exhaustion of stocks and the syndicate have contributed to steady the course of prices.

**OILS, FIXED.**—*Linsced*, after several fluctuations, is practically unchanged on the week at 21s. 7½d. in pipes and 22s. in barrels, East Indian being quoted at 1s. premium; Ceylon *Coconut* is steady at 29s. and at 33s. 6d. for Cochin, both on the spot; *Rape* is nominal at 27s. for ordinary brown cru 9s. for English refined in casks, and 25s. for Ravison on the spot; *Cottonseed* is steady at from 23s. 6d. to 23s. 9d. for crude, 24s. 6d. for ordinary pale refined, and 26s. 6d. for sweet refined on the spot; *Lagos Palm* oil is 3d. dearer at 28s. 3d.; *Petroleum* is quiet at from 6d. to 6½d. for Russian, 6½d. to 6¾d. for ordinary refined American, and at from 7½d. to 7¾d. for water-white, Roumanian being quoted at 7d.

**PEPPER.**—At auction 265 bags of Alleppy were offered, of which 115 had been sold privately at 3¼d. for good. Of *Long* pepper, 97 bags offered and 46 sold without reserve at 14s., being lower. Privately the market for shipment has been quiet, fair quality on the spot offering at 3¼d. For arrival, April shipment afloat has been sold at 3d., and for June-August shipment sellers quote 2½d. c.i.f.

**PEPPER (WHITE).**—At auction 64 bags of fine Singapore were bought in at 6½d. and 49 bags of fair brown Penang at 4¾d. Privately the market is quiet, fair Singapore offering on the spot at 5d., and for arrival sellers of Singapore quote 4½d. for May-June shipment.

**PIMENTO.**—Quiet. At auction 123 bags were bought in at 2½d. Privately, sellers to arrive quote near at hand at 19s., and for distant shipment at 19s. 6d. c.i.f.

**QUICKSILVER.**—Importers still quote 8l. 7s. 6d. and second-hands 8l. 4s. per bottle.

**QUININE.**—Without alteration, the makers' price for German sulphate remaining at 7½d. per oz., second hands quoting 7d. to 7¼d., and "outside" makes 6½d. to 6¾d. per oz.

The exports of "quinine, quinine salts, and combinations" from Germany during the two months ending February 1909 amounted to 23,300 kilos, against 26,000 kilos. in 1908 and 39,300 kilos. in 1907.

**RESIN.**—Dearer, common strained on the spot being quoted at 8s. 1½d. per cwt.

**SHELLAC.**—At auction on Tuesday 849 cases were offered without reserve and sold at generally lower prices. Fine orange was 5s. lower, second orange being unchanged, and Garnet about steady. The prices paid were as follows: Fine pale Ralli, slightly matted, 94s. to 98s.; fine bright reddish free, 95s.; good pale flat free, 93s.; slightly matted ditto, 91s. to 92s.; fine lemony matted to blocky, 86s. to 88s.; good bright reddish flat free, 74s. to 77s. TN; good curly matted, 68s. to 69s.; fair bright reddish, partly matted, 66s. to 70s.; reddish livery, partly matted, 66s. to 68s.; ditto matted to blocky, 62s. to 63s. Garnet: Good free AC, 67s. to 69s.; hard cakey to blocky, 59s. to 61s. Button: Angelo B fine pure free, 88s.; BL1 cakey to blocky, 68s. to 71s.; fair blocky ditto, 63s. to 66s.; BL circle 2's ordinary weak free, 48s. to 49s.; BL3 common dark resinous, slightly

cakey, 37s.; and black cakey and blocky Kala, 36s. Privately the market is dull, TN orange offering on the spot at from 69s. to 70s. for fair free; for arrival TN for May-June shipment is offered at 64s. 6d. to 65s. c.i.f., and AC Garnet at 64s. c.i.f. For delivery, prices are weaker, May having been sold at 66s. to 67s. 6d., and August at 68s. to 69s. per cwt.

**SODA NITRATE.**—The London price has been raised 1½d. per cwt. to 10s. 9d. for refined and 10s. 7½d. for ordinary, and in Liverpool exactly the same quotations prevail. According to a telegram from Reuter from Santiago de Chile, the chief nitrate producers propose to form a new trust to centralise the sale and lower the price of nitrate.

**TURMERIC.**—Quiet at from 19s. to 20s. for fair to good Madras finger, at 19s. for Bengal, and 12s. for Cochin split bulbs.

**TURPENTINE.** after advancing to 28s. early in the week, has declined to 26s. 9d. on the spot.

### London Drug-auctions.

At the auctions of new drugs held to-day a fair quantity of the offerings was disposed of, with few alterations in values. Cape aloes sold steadily, but areca were about 1s. easier. Sumatra benzoin had an easy undertone, and for cardamoms irregular but generally steady prices were paid. Common cuttlefish-bone sold at valuations. Good reboiled dragon's-blood declined, but quality was not so fine as that sold a fortnight ago. Jamaica honey was in demand at irregular but about steady rates, competition being very fair. Ipecacuanha quiet, but steady. Menthol "with all faults" sold at high prices compared with private rates. Essential oils were uninteresting. Lime is easy. Sarsaparilla was 1d. dearer both for Lima and Native Jamaica, no grey being offered. Tinnevelly senna was without alteration, and the tendency of beeswax was easier generally. The following table shows the quantity of goods offered and sold:

Aloes—	Offered	Sold	Lime-juice	Offered	Sold
Cape .....	25	25	Menthol .....	9	0
Socotrine (kegs) .....	8	0	Myrrh .....	20	20
Zanzibar (cs.) .....	13	0	Nux vomica .....	6	6
Anise star .....	49	0	Oil—	108	0
Annatto-seed .....	67	0	cinnamon .....	18	0
Antimony (cr.) .....	45	0	essential .....	1	1
Areca .....	50	50	gurjun .....	38	0
Benzoin—			lime .....	10	9
Sumatra .....	154	55	orange .....	3	0
Buchu .....	7	7	peppermint .....	6	0
Butter beans .....	43	43	Orange-peel .....	9	0
Camphor—			Orchella weed .....	84	0
(Jap. ref.) .....	10	0	Rhubarb (China) .....	1	1
Cardamoms .....	286	144	Sandarac .....	17	6
Cascara sagrada .....	100	0	Sarsaparilla—		
Cashew nuts .....	20	0	Lima-Jamaica .....	4	4
Coca-leaves—			Native .....	13	13
(Ceylon) .....	3	0	Seedlac .....	136	0
Cochineal .....	2	0	Senna and pods—		
Coriander .....	100	0	Tinnevelly .....	100	100
Cuttlefish bone .....	49	27	Shellac .....	5	5
Dragon's-blood .....	10	10	Tamarinds (W.I.) .....	53	0
Gamboge .....	12	2	Tragacanth .....	10	10
Gum arabic .....	85	40	Viches .....	1	0
Honey—			Wax (bees)—		
Hayti .....	4	4	East Indian .....	51	13
Jamaica .....	364	332	Cuban .....	13	0
Narbonne .....	20	0	Jamaica .....	18	7
Ipecacuanha—			Madagascar .....	129	0
Cartagena .....	22	1	Mombasa .....	3	0
Matto Grosso .....	15	3	Morocco .....	44	0
Kanala .....	3	0	Spanish .....	9	0
Kola .....	5	0	Zanzibar .....	3	3
Lemon-juice .....	1	1			

**ALOES.**—Cape aloes was fully steady, good to fine hard bright Mosel Bay (20 per cent. tares) selling at from 32s. 6d. to 33s., fair ditto at 31s. 6d., part drossy soft and dull at 30s., and low cindery mixed with sand at 26s. per cwt. Thirteen cases Zanzibar aloes in skins were bought in, fair hard hepatic being held at 75s. per cwt.

**ANNATTO SEED.**—Good bright Madras was held at 4½d., and for other lots, of mostly common quality, the buying-in price was 4d.

**ANTIMONY.**—Forty-five cases Japanese crude were bought in at 16l. per ton.

**ARECA** easier. Fifty bags of small to bold sound Ceylon sold at from 12s. 6d. to 13s. per cwt.

**BENZONIN** easier. A string of 55 cases Sumatra sold at 7l. 5s. per cwt. for good almondy seconds of slight storax flavour and slightly false-packed, and at 5l. 10s. (one lot 5l. 12s. 6d.) for ordinary seconds with small almonds.

**BUCHU**.—Round greenish leaves are not to be had; from second-hand a single bale of this quality has been turned over several times, ultimately finding a buyer at 1s. 3d. In auction six bales of partly fair greenish "oblongs" sold at from 3½d. to 5d. per lb. An arrival of thirty-four bales has taken place, probably in transit for the U.S.A.

**BUTTER BEANS**.—Forty-three bags of Madagascar sold at 16s. per cwt. subject, gross for net, no discount.

**CARDAMOMS**.—The bulk of the offerings were disposed of at somewhat irregular rates, but generally steady on average. *Seeds*, however, were easier. The prices paid were as follows: Ceylon-Mysore, extra bold fine pale long, 3s. 3d.; extra bold dull smooth, 2s. 4d.; pale ditto, 2s. 5d.; good bold palish to pale, 2s. 1d. to 2s. 3d.; medium and bold palish to pale, 1s. 8d. (subject) to 2s.; small and medium palish to pale, 1s. 6d. to 1s. 8d.; very small pale, 1s. 5d.; brown and split, 1s. 3d. to 1s. 4d.; common pickings, 1s. 2d.; splits, medium and bold, 1s. 7d.; small and medium, 1s. 6d. *Seed*, 1s. 9d. to 2s. per lb.

The exports from Ceylon during the period January 1 to March 29, 1909, were 145,980 lb., compared with 157,921 lb., 178,230 lb., and 184,475 lb. during the corresponding periods of 1908-7-6. The U.K. has so far this year received 62,131 lb. (1908, 48,179 lb.), Germany 20,722 lb. (1908, 7,240 lb.), India 27,501 lb. (1908, 90,298 lb.), and U.S.A. 8,687 lb. (1908, *nil*).

**CASCARA SAGRADA**.—At auction 100 bags of fair 1906 crop were bought in at 42s. 6d., a bid of 40s. being refused. There has been a very fair amount of quiet buying recently and the drug is distinctly firmer. It is said there is only now one parcel to be had at 42s. 6d., after which the price is to be advanced to 45s.

**COCA LEAVES**.—Three bales fair greenish Ceylon-Huanuco were held for 8½d., a bid of 7½d. being refused.

**CUTTLE-FISH BONE**.—Twenty-seven bales of Bombay sold at 2½d. per lb. for ordinary dullish partly broken bone. Twenty bales sweepings offered without reserve elicited no bid.

**DRAGON'S BLOOD** rather easier for good reboiled Singapore lump, nine cases of which found buyers at 12l. per cwt., and a case of good pickings realised 7l.

**GAMBEOGE**.—Two cases fair Siam pipe, slightly blocky, sold at 13l. 12s. 6d. per cwt., and seven cases very blocky Siam, part dark fracture and mixed with a few pieces of lead, were held at 14l. 10s.

**GUM ARABIC**.—Ten bags of fair glassy Australian red sorts were bought in at 40s. per cwt., and of 50 bags of Turkey sorts, five sold at 31s. for small to bold reddish. Fifteen cases of Persian so-called insoluble pickings sold without reserve at 12s. 6d., and 20 cases of siftings at 12s. per cwt.

**HONEY**.—Jamaica again sold well at somewhat irregular but generally steady prices. Extra fine clear lemon-coloured liquid realised 37s., good to fine pale amber liquid 30s. to 32s., fair amber liquid 26s. 6d. to 29s. 6d., middling darkish amber ditto 24s. to 25s. 6d., and brown to palish set 27s. 6d. to 31s. per cwt. Twenty packages fine pale set Narbonne were held at 54s. per cwt. The arrivals from Jamaica since our last report include 417 packages, part of which was offered at to-day's auction, and the *Tagus*, just reported, has brought 295 packages.

**IPECACUANHA** quiet but steady. Fifteen bales of Matto Grosso were offered of which three sold at from 5s. to 5s. 2d. per lb. for fair to good bright. A lot of fifteen bags of Cartagena, of above average quality, being mostly plump and clean, was held at 4s. 4d. per lb., a bid of 4s. 3d. being refused for the first lot. A bale of Cartagena pickings sold without reserve at 3s. 5d. per lb.

**LEMON JUICE**.—A single puncheon of brown Jamaica sold at 11d. per gall. subject.

**MENTHOL**.—Twenty cases of Kobayashi crystals were offered without reserve for account of whom it may concern with all faults, and sold at from 6s. 11d. to 7s. for fair crystals; at from 6s. 10d. to 6s. 11d. for blocky crystals in

"cases and wrappers slightly stained," and at 6s. 8d. for "cases and wrappers badly stained." These prices are considered high, Kobayashi offering privately at 7s. 1d. and Suzuki at 7s. spot.

**MYRRH**.—Six bags of ordinary siftings realised 45s. per cwt.

**OIL, CURJUN**.—Thirty-eight drums Singapore were bought in at 5d. per lb.

**OIL, LIME**.—Three cases West Indian distilled sold at 1s. 9d. per lb. and six cases at from 1s. 10d. to 1s. 11d. per lb., the higher price being for good pale quality.

**OIL, PEPPERMINT**.—At auction four cases of water-white American oil in half-kilo. bottles were bought in at 7s. per lb., and for two cases of Kobayashi Japanese oil, demethylolised, the buying-in price was 5s. Privately, sellers quote 4s. 9d. for Kobayashi, 8s. 9d. for H.G.H., and 6s. 1½d. for Wayne County tin oil.

**RHUBARB**.—A single case, all that offered, sold at 1s. 5d. per lb. without reserve for medium and bold round Skensi with three-quarters fair pinky fracture.

**SANDARAC**.—Small sales of fair Morocco quality were made at from 55s. 6d. to 56s., low selling at 38s.

**SARSAPARILLA**.—No grey Jamaica was offered. Four bales of fair Lima-Jamaica sold at 1s. 3d., being 1d. per lb. dearer, and for 13 bales of native Jamaica an advance of 1d. was also paid, fair to good red selling at 1s. to 1s. 1d. and dull pale red 10½d. to 11d. Two bales of dull mixed red and yellow native Jamaica from another catalogue sold at 1s. per lb. Three bales of nondescript Mexican character sold at from 1s. to 1s. 1d. The *Tagus* has brought 71 packages from Pauana and 20 packages from Jamaica.

**SENNA** sold without alteration, 100 bales Tinnevely selling at from 1½d. to 1¾d. (one lot 2d.) for small common specky, partly damaged. *Pods*, of which only three bales small dark offered, sold at 4½d. per lb. Two arrivals of 250 bags and 200 bags have taken place in Liverpool from Alexandria, but they are probably in transit for the U.S.A.

**WAX, BEES**.—Quiet and easier; 129 bags of fair brown Madagascar block were held at 7l.; 13 cases fair Cuban were bought in at 7l. 15s. and 9 cases bleached Spanish at 7l. 10s. Eight cases fair Bombay, of mixed colours, sold at from 6l. 5s. to 6l. 7s. 6d. per cwt., and 5 cases low brown, offered without reserve, sold at 43s. Jamaica was easier, 5 packages finding buyers at from 7l. 10s. to 7l. 12s. 6d. per cwt. Good white bleached Calcutta was held at 7l. 15s. per cwt., at which sales have been made privately. Three cases of common Zanzibar block sold at 6l. 17s. 6d. per cwt.

### Cascara Sagrada.

In our issue of January 30 (p. 157) we gave some interesting particulars in regard to the cultivation of cascara sagrada from information supplied by Mr. F. R. S. Balfour to the "Kew Bulletin," who stated that the trees are being rapidly exterminated, except in remote places. This statement has, however, been qualified by a correspondent of the "Portland Oregonian" (per the "American Druggist") who expresses the opinion that, wherever it is given the opportunity, the tree quickly reproduces itself both from seed and its roots, so that in seven to ten years, dependent on the soil and humidity of the climate, it is again ready for the peeler. This correspondent believes that cascara will therefore never be exterminated in "our humid Western country," and is still in abundant supply. In regard to the market position, he states the peel has been exceedingly moderate for the past few years, and far below the normal average consumption, which has been largely supplied from the hold-over stocks. Further, he asserts there is still a large carry-over from the crazy seasons of 1903 and 1904, but such stocks cost high and are held still higher by the sanguine holders, who hope to see 10c. per lb. for their bark.

An outbreak of fire commenced in a stack of coal slack at Messrs. Lever Bros.' Port Sunlight Works on April 21, and extended to about 300 barrels of resin stored in the same field. The fierceness of the fire created some difficulty in dealing with the blazing barrels, but eventually they were removed to a place of safety, and the fire was subdued without the works being endangered.





**TO CORRESPONDENTS.**—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

**BUSINESS INFORMATION.**—We supply by post (when a stamped and addressed envelope is provided) information as to the makers or agents for articles connected with pharmacy and the chemical and drug trades. Inquiries regarding any articles which cannot be traced are inserted under "Information Wanted."

#### Dispensing in Malta.

SIR,—May I be permitted to avail myself of your most creditable paper and to make some comments regarding the Second Sanitary Law of 1900 for Malta and its Dependencies? Article 7 runs as follows:

Physicians are prohibited from practising pharmacy. This provision shall not apply to District Government Medical Officers, when they have to provide the poor gratuitously with medicines from the Government Dispensary.

If this be taken into consideration, it would be noticed that the second paragraph is against the fundamental principle of law—i.e., against the principle that the law shall protect rich and poor in one and the same way. In truth the late Crown Advocate, moving the first paragraph to form part of the aforesaid law at sitting No. 14, of January 1900, of the Council of Government, said:

It is necessary that medicines should not be dispensed by the prescriber so that his conduct might be checked by the dispenser, who as a member of a kindred profession will be able to discern whether the ordered medicine might be in any way detrimental to the patient. We know that in other countries where the physician is allowed to dispense his own prescriptions, sometimes physicians, tempted by mercenary or other motives, might administer drugs for unlawful purposes. The consideration of these self-evident facts induced the Government since the year 1873 to prohibit a person to exercise simultaneously the professions of physician and pharmacist.

If this passage be considered, it will appear rather difficult to find out why the very reasons which induced the Government in the year 1873 to make such a protective law to safeguard the health of the rich, did not induce the same Government to apply it also to the poor. As the law stands, the poor are compelled to have their medicines dispensed by the prescriber. The above observation would lead to the conclusion that such a disposition is against the spirit of justice and equity. The provision deprives the authority of the principal means of coming to the knowledge of any poisoning case occurring at the Government dispensaries, where the prescriber acts also as a dispenser. Such cases of poisoning through fault of the prescriber acting as dispenser we read very often in British journals of pharmacy. Glance also at the second paragraph of Article 18:

Every dispensary intended for the use of the public, or for the service of hospitals or other civil institutions, shall be managed by an authorised apothecary, who is to be on the spot during the time the dispensary is kept open.

The provision of the preceding paragraph is not applicable to the Government Dispensaries, even when they are for the service of hospitals or other civil establishments. Such dispensaries shall be regulated by internal regulations.

This is nothing else than injustice; in fact, by the first paragraph the Government guarantees the rich that medicines should be served up to them by legally qualified

persons, while by the second the same Government denies such a guarantee to them who, through no other fault than mere poverty, happen to be in Government hospitals or other charitable institutions, wherein (the Central Civil Hospital excepted) medicines are compounded and dispensed either by the prescriber or by some unqualified person who will have no notion whatever of pharmacy and chemistry. The latter case is by far worse than the former.

Respectfully yours,  
PHARMACIST. (102/19.)

#### Long-necked Castor-oil Bottles.

SIR,—In the old days castor oil possessed a most objectionable odour, which made the act of swallowing it a very unpleasant one. The long-necked bottle was therefore evolved so that the neck could be placed in the mouth and the oil swallowed without the odour being noticed.

Manchester, April 16.

A. NEWTON.

SIR,—“Xrayser” wants to keep the discussion on long-necked castor-oil bottles going till the wise and ancient man comes forward to explain. I do not suppose this will clear the matter up, but I was told when an apprentice that the reason we put castor oil for cattle in bottles of that pattern was that they might be used to administer the oil from. Perhaps this suggests that our great-grandparents used the same method with their children.

Yours faithfully,

Muswell Hill, N., April 17.

ALF. HORNEY.

#### Castor Oil.

SIR,—There can, I think, be no doubt that as regards the origin of the term “castor oil” Hanbury is right, and the Oxford English Dictionary wrong. It seems to me very unlikely that the name can have been transferred from the oil of castoreum, for the two oils have little or nothing in common, either in appearance or properties, and it is evident from Alleyne that the older preparation had virtually gone out of use long before the other was at all generally known. He says, writing in 1733, that it was seldom used, and but rarely met with in the shops. Dr. Murray, in the O.E.D., dates the first use of the term as applied to *Oleum ricini*, 1846, but Canvane's treatise (to which he refers) is dated (in a written hand) 1766 in the copy I have seen in the British Museum, and this agrees with Buch's reference to it. The title of this treatise is “A Dissertation on the Oleum Palmæ Christi, sive Oleum Ricini; or (as it is commonly call'd) Castor Oil, &c., by Peter Canvane, M.D. (of Bath).” It is from this, I presume, that Hanbury got his information, for Canvane says the French inhabitants of the West India Islands “sometimes call it Agnus Castus, perhaps on account of the oil's virtue in curing febrile heats, and especially the heats of Venery, from whence, I suppose, the people of St. Christophers have by a corruption of Agnus Castus called it castor oil.” This is perfectly clear, and as it is equally clear that the oil came into use in England largely through Dr. Canvane, it may safely be concluded that we took its name also from the West Indies.

The mystery is why it did not come into use earlier, for though Pliny says (Philemon Holland's translation) that it is “very fulsome and naught to be eaten, good only for lamps,” yet Hippocrates experimented with the “beans,” as did Matthiolus after him, trying to correct their acidity by what Canvane calls “torrefaction”; while our own Gerard and Gulielmus Piso (author of a natural and medicinal history of the West Indies) both recommended them, the former in broth, the latter in the form of a tincture made with brandy, for colic and constipation. Even so, however, they were found too “acrimonious,” and Alleyne says of them, “they are seldom ventured on in regular practice.” Yet all the while the oil was known and used externally, as were also the leaves of the plant, in herpes, itch, and other skin-diseases.

When Canvane wrote his “Dissertation” it is evident that, speaking generally, this is all that was known of the plant's virtues. He refers indeed to a somewhat earlier treatise by a Mr. Fraser, surgeon to his Majesty's troops in Antigua, contributed to “the medical essays of London,” but says he had not seen it; and he remarks upon the silence with regard to castor oil of four eminent European physicians in recent tracts on stomaclic and intestinal dis-

orders, inferring that they knew nothing of the new remedy. The oil had, however (he says), then been in popular use in the West Indies, and he himself had prescribed it largely for nearly fourteen years, partly in America, and later in his practice at Bath. He cites also the case of a "Mr. Brown, a gentleman of fortune" (but we may infer of singular tastes), who used the oil instead of olive oil in salads, procuring thereby one or two stools, and adds that Mr. Renaudet, of Bristol Hotwells, also used it for several years in his practice. It is, as I said, curious that a medicine since so universally used and so highly esteemed, and that lay so ready to hand, should have come into use so late, and that too, evidently, in the first instance, as a mere popular medicine.

The plant from which this first-used oil was drawn was the American *Ricinus major* or *Cataputia major*. Canvane gives an excellent figure of it, which agrees with the one in Gerard. Following Canvane's treatise in the same volume in the British Museum is another, in Latin, on the same subject, printed at Freiburg in Breisgau, in 1880, which is, however, in the main drawn from Canvane. This Latin tract has a very fine copperplate of the plant, of large size.

C. C. BELL.

#### Federation of Local Pharmaceutical Associations.

SIR,—In recent years pharmacists have often expressed the need of a strong organisation intended primarily to safeguard and promote their commercial interests, and numerous schemes for achieving this object have from time to time been brought forward from various sources, but in the opinion of many, a vital flaw in many of these schemes is that they have not secured the support of local pharmaceutical associations. The *C. & D. Diary*, 1909, gives about a hundred such bodies, with approximate membership of 3,877. Reducing this by one-fourth, to allow for honorary and unqualified members, we have 2,800 pharmacists already organised into groups. Theoretically, a federation of these should provide what is required, but the existing Federation has been starved in funds for years; its members have failed to co-operate in its development, and its latent power has never been sufficiently tested. Last year the Three Towns Association decided to withdraw from the Federation unless a satisfactory reorganisation were effected, and subsequently was requested by the Federation Executive to state definitely its suggestions of reconstruction. The Three Towns Association has carefully considered the matter, and is strongly of opinion that, *inter alia*, the following points are essential—viz.:

The new parent Association shall embrace independent pharmacists as well as members of Associations.

The annual subscription shall be not less than 2s. 6d. per head (*i.e.*, about  $\frac{1}{2}$ d. per week).

The Executive and the General Purposes Committee shall meet at stated intervals.

The travelling-expenses of delegates must be paid by the parent Association.

The Secretary (or Assistant Secretary) must be a salaried officer.

The parent Association shall assist in forming and combining buying sections.

Circulars setting out all the particulars of the suggested schemes have been sent to the local Associations for consideration. What will the Associations do? Shall the Federation be mended or ended? Delay has cost us too much already—the matter is pressing, and the time for decision is now. A meeting has been called in London during the week of the Chemists' Exhibition, when this matter is to be discussed. The Three Towns Association is sending a delegate, and it is hoped that all the affiliated Associations will endeavour to be represented in order that their views may be obtained.

H. H. CANNON,

Hon. Secretary, Plymouth, Devonport, Stonehouse, and District Chemists' Association.

106 Old Town Street, Plymouth, April 20.

#### Liverpool Chemists' Association.

SIR,—“Xrayser's” observations in your last issue are much to the point in suggesting that my aims are far wider than the formation of buying clubs and suggesting petty reforms to any or every local association. Never in the history of pharmacy were we more in need of an active, practicable policy and efficient leaders than at present. Beyond their official duties and limitations we cannot

depend on the Council of the Pharmaceutical Society, so that in trade matters we are at the mercy of anyone strong enough to prey on our individual helplessness. And yet there is no trade that could be organised with prospects of better results. Surely the time has come seriously to test the matter by forming a union of pharmacists. Why hesitate? The assistants are boldly facing the question, pluckily endeavouring to organise their forces, and although I am in complete sympathy with most of their views, I cannot see how any one-sided arrangement can benefit either themselves or the craft generally. Every worthy assistant hopes and intends to own a pharmacy in the near future, so that his own best interests are those of his employers, hence the necessity for organisation on much broader lines. Nothing could end more disastrously than a partial union playing into the hands of the big firms and crushing for ever the small retailer. No; we must stick together, work together, unite together for the good of the whole, then success will become a certainty. And, really, it is worth the effort, for with such unlimited possibilities the wonder is that no practical attempt has been made in this direction. I should much like to receive suggestions and offers of help for an immediate campaign.

Yours for mutual benefit,

L. MORETON PARRY.

163 Oakfield Road, Liverpool, April 17.

#### Leicester Prescriptions.

SIR,—I note the report of the Leicester Chemists' Association, in the current issue of the *C. & D.*, and your remarks *re* copying dispensary prescriptions, in which you say the cards can be filed. You are evidently under a misapprehension. The cards (so called) have on them the member's name and contribution, the prescription is written on paper inserted for the purpose, and does not contain the name of either patient or prescriber. Besides, the medical man objects to the paper being removed, as he does not enter such prescriptions in any book, and therefore requires the patient to retain it for his reference from time to time. I was not at the meeting referred to; it was held after business hours and in the centre of the town, a long distance for suburban chemists to go, and making it necessarily very late before reaching home again. Why the meetings should not be held on Thursday afternoon, the closing day, I have never yet been able to understand.

Yours,

Leicester, April 16.

SAMUEL C. NUTMAN.

#### Poor-law Dispensing Service.

SIR,—I think Mr. Dunstan did quite right in pointing out to the Local Government Board inspector what an enormous job it would be if all drugs had to be kept an account of as used, and the thanks of all Poor-law dispensers are due to him for what he did. It seems to me that for all practical purposes taking stock quarterly is quite sufficient, while entering up the quantities of the various drugs as used will mean a largely increased staff and, of course, largely increased cost, without, to my mind, serving any useful purpose. For instance, what can it matter how much pot. brouid. is used on any particular day and in which particular ward? Besides, if it could be done in hospital, how could it be done in out-relief departments? I am very pleased Mr. Dunstan pointed out the difficulties, and trust the recommendation will not become an order. The entering-up of other stores consumed is a very different matter, not at all on a par with drugs, and is much more easily dealt with. Your correspondent “Poor-law Dispenser” must remember that the quantities are larger and are distributed in the same condition as received, such as meat, sugar, tea, soap, etc., and there is no trouble in entering how much of each is sent to the various departments; whereas drugs and chemicals are often used in such a way as to form only a component part of the finished article when distributed. For example, cupric sulphate would be bought as cupric sulphate, but would be distributed through the wards as part of Fehling's solution and in other ways. Again, ammon. carb. and acid. acetic. might be bought as such, but, although consumed at the end of a given time, might only be in the form of liq. ammon. acet., and so on. I should like to say to “Poor-law Dispenser” that a good plan is to fill all bottles full as far as possible before commencing to take stock. This expedites matters con-



siderably. Thus a row of 20-oz. tinctures all full takes very little calculating. A graduated stick for measuring liquids has much to recommend it. Of course, the same rule applies to everything, whether in the poison cupboard or out of it. Wholesale bottles usually have the tare scratched on them, so there is no difficulty in getting at the weight of contents without turning them out. All ordinary powders can be weighed against an empty bottle of the same kind. Alkaloids must be turned out to be weighed, but as there are comparatively few this work does not take long. In conclusion, I might say that in hospital dispensaries, as in retail pharmacies, little difficulties are bound to crop up at stock-taking, but I have never found them insurmountable; anyway, I am always careful that my stock at the hospital and the out-relief dispensaries is never one penny overestimated. Trade valuers never go into minims when a retail business is changing hands, and there is no need to do so in dispensaries. Thus if your correspondent had bought 4 oz. ol. gaultherie and during the quarter had used, say, within 20 or 30 minims of 2 oz., it would be quite near enough to enter 2 oz. as remaining. If I can be of any use to any Poor-law dispenser at any time, I shall be only too pleased if addressed as below.

Yours truly,

FRED COATES, Pharmacist, Dispenser.

The Infirmary, Bagthorpe, Nottingham, April 19.

#### Certificates of Termination Qualification.

SIR,—I have to-day received my certificate of qualification from the Pharmaceutical Society, which expires (not the Society, but the certificate) in twelve months, and has to be renewed annually, price 1s. The document is dated at the top 1909, giving the impression that I qualified at the Square in April 1909. As a fact, I passed my examination in 1872, and was certificated and qualified to conduct the business of a chemist and druggist, and was as really a chemist and druggist as I am to-day with the new regulations. Some will wonder that I have been able to evade the law so long. Again, the same idea will occur next year with a new certificate dated 1910. To have done the correct thing would have been to place on the certificate the Society's coat-of-arms incorporated by Royal Charter and the date of the registration by the Society in the first instance. In my case it does not matter much, but for younger chemists it is very hard; and why exact 1s. annually from chemists already qualified who have paid the fees and other incidental expenses? The Society absolutely does nothing for the trade, but, on the other hand, extorts from it thousands of shillings annually. This latest phase of pharmacy-regulations is as preposterous as it is ridiculous. The Society suggests that our proper plan is to become members of that august body, and further add to its coffers by giving guineas instead of shillings, but "vain is the net spread in the sight of any bird." The public understand what a chemist is and what the title means, but do not grasp the other brands.

Yours respectfully,

YORKS. (17/45.)

#### Agricultural and Horticultural Poisons.

SIR,—While the conditions attached to the granting of licences for the sale of poisonous substances are altogether more favourable to the existing qualified vendors than at one time seemed likely, there are grave risks of those conditions being nullified in two directions. First, through a superficial or perverted reading of the law by those in power who have the granting of the licences; and, second, through sheer indifference on the part of qualified men to grasp the present situation with all its possibilities by failing to prepare to meet the demands. That there is grave risk of local authorities being swayed by personal rather than legal considerations has already been seen in the readiness with which, in some districts, licences have been granted to applicants apart from all consideration of already existing facilities. This abrupt procedure has received a check by the Order in Council, the conditions therein laid down being a clear indication to authorities that existing facilities cannot be ignored. Notwithstanding some authorities still argue it is an interference with free trade, that the Legislature intends free trade, and so on, and they are determined to grant licences, and so prevent what they are pleased to term a monopoly. This spirit

ought to be opposed at present by every argument and by all the power that can be brought to bear against it. It is the keystone of the present and future position as to the free or restricted sale of poisons, and if, through indifference or unwillingness to oppose a friendly neighbour, or to stock these substances, a licence is permitted where it might have been prevented, incalculable harm may be done for all time. The professional aspect of the question should be kept continually to the front and urged—viz., that by training, qualification, and examination the pharmacist is the proper person to handle these poisonous substances. The well-being and safety of a community ought to appeal to men where the business aspect may fail, and the vital point in such a sale is just the timely word of caution which accompanies handing over the poison. Pharmacists do not necessarily require to appear personally to oppose these applications; this might be done through local Associations or by the officers of the Pharmaceutical Society. Whether looked at from a semi-professional or purely business standpoint, here is something at least still left for us. From a business point of view a man would be a fool who deliberately threw away such a chance; but there is a great principle at stake—the free or restricted sale not of a free and well-defined number of poisonous substances, but of all poisons whatever.

Yours truly,

PHAR. CHEM. (19/8.)

#### Pharmacy and the Future.

SIR,—There is more than platitude in the assertion that the present time is one of transition. Thought is in a state of flux. Economically the transition is perhaps more apparent than in any other province, probably because in this we are all affected. Now economic change is shaping itself along one very definite line of progress—to wit, the extinction of the small retail trader. There are two main reasons for this. Firstly, in the absence of a supreme monopoly, the public benefits by lowered prices resulting from the economies effected by combination. Secondly, those in the combine benefit from the same cause, diminished prices notwithstanding. It is the inevitableness of the process which I desire to impress upon the reader. It is no spasmodic, passing phase, but something unceasing, implacable, ungovernable. Sooner rather than later the retail trader and all the preventable waste he represents will have become a thing of the past, and the nation's business will be concentrated in the hands of a few large firms, organised on lines of surpassing efficiency, the leakage of labour and capital reduced to a minimum, and the public benefiting from all the conveniences of such a service. And to-day, while the change is going on, the middleman finds himself between the millstones. On the one hand he finds himself beaten by the limited company, and on the other he is hard pressed by the increasing demands of his employés. And how precisely will the transition affect the pharmacist, who is, of all middlemen in business, perhaps the most immune from the grinding effects of this millstone process, and yet he is by no means altogether excluded? From below the proprietor is, like other traders, assailed by an army of employés making constantly increasing demands on his wage-bill; and above he finds himself cut out and cut off by the limited company, whose blow hits him in two places: (1) by paying high wages it compels him in some measure to follow suit, and (2) by underselling him threatens his livelihood. The pharmacist at one time (gone since April 1) considered that after going to the trouble and expense of "qualifying," he ought to have had legislative protection from company competition. Other victims have not regarded the struggle in the same way. The small grocer never dreams that he has any sort of case against Lipton Ltd., in whose rise, progress, and success he sees nothing unjust or unfair to himself, apart from the general unfairness and irony of existence itself. The new Act brings the pharmacist back to that realm of thought, "What is his future to be? One thing is certain. If the trading side of his calling predominates, he will assuredly succumb to the competition of the capitalist, along with his non-professional brethren; but if the professional side predominates he will become master of the situation, inasmuch as professional service is a matter of personal qualification. The public are far from regarding the compounding of

prescriptions as a mechanical operation to be carried out by an irresponsible employé. One of the bugbears of the proprietor is the demand made by his customers upon his personal presence behind his own counter. The middle and upper classes on the whole prefer to have their dispensing done by the "old-fashioned chemist" who runs his own shop. Wherever professionalism obtains, the British public will continue to prefer the man who pursues his calling on his own account, and just as surely will the limited company, doing business on a huge scale, continue to grow in favour for purely commercial purposes. Is it necessary to indicate the strength of the pharmacist's position? One of George Eliot's well-known characters says: "Eddicated men! Why, I could buy up half the eddicated men I've ever seen." To which one replies: "You could, but you can't." The capitalist could but can't buy up the "edicated" doctors, dentists, or lawyers. Is he to be allowed to buy up the "edicated" pharmacists? Enough has been said to show that in one way, and in one way only, can the practising pharmacist save himself from the inevitable grind, grind, grind of the millstones, and that way is by upholding and increasing his professional status.

R. CECIL OWEN, B.Sc., M.P.S.

#### "Oh! for the Rarity of Christian Charity."

SIR,—There are at the present time calling upon chemists men representing various houses, who have formerly been managers, buyers, etc., for some of the large drug-companies. These men, having at one time attempted to rob us of our legitimate living, now have the audacity to call soliciting "our favours," as they are pleased to term it; having failed to filch from us our daily bread, they now have the impudence to ask us to share it with them. I think if we firmly decline their solicitations, some of their employers may be induced to make it their rule to bar this class of man when engaging a representative, and, further, a man contemplating a store engagement may consider his future in a different light if he sees that his contemplated action is likely to prejudice his future prospects. I for one shall make it a rule to give no orders to these men, who will in time become known through the agency of competing representatives.

Yours truly,  
ANTI-STORE. (18/8.)

#### Does Witch-hazel Make the Hair Grow?

SIR,—I can assure "Witch-Hazel," who asked the question in your last issue, that it does not. I speak from the experience of four ladies who use a proprietary witch-hazel cream. Two of them have been ardent motorists for years, and when they return from a run, before washing they rub the cream into the skin of the face, and have done so for at least two years. The other two ladies use the preparation when they require it, or feel that they do. In none of these has there been the slightest evidence of hair-growing stimulation. One of them is my wife, and I am in a position to vouch for the smoothness of her cheek. What a fine "proprietary" is lost by this negative reply! In these days when it is hard to turn an honest penny it would have been magnificent to turn honest shillings by selling witch-hazel preparations to make the hair grow; but, alas! it is once again the story of the empty bottle—"nothing in it."

Yours truly,  
HAMAMELIS (14/89.)

SIR,—I have frequently made up the following hair-wash:

Resorcin.	...	gr. XL.
Spt. rectificat.	...	5ij.
Liq. hamamelidis	...	5ij.
Aquæ	...	5j.

As it was the only instance I have come across, I was interested in "Witch-hazel's" note. In the above case it is a moot point whether the witch-hazel is present as a hair stimulant or merely as an agreeable vehicle.

Yours, etc.,  
J. G. (21/24.)

#### Letters in Brief.

ASSISTANTS' UNION.—Not a word about choosing the able, reliable, competent men; simply we are qualified. But what to do? Sell poisons, which are only 1s. to 2s. per day of the total sales—rarely exceed 5s. Exam. poor affair, and

will be until certain men with fatuous ideas die off. To name one subject: the exam. overlooks the recognising of hundreds of herbs, roots, and seeds in daily use and crams you with the hypothesis of Avogadro, Law of Dalton, etc., only comparable in uselessness to the brayings of the Ass of Balaam. Ancient Guilds of London ensured the competence of craftsmen. Modern trade unions make it the pace of the slowest man for all men alike; surely a chemists' union aims higher than a navvies'? Let them think of the future when the majority will be qualified. Divided exam. will hasten that. For years even now it has been 400 to 500 qualified to replace 100 deaths yearly. Let them select and they will confer a status, and employers will be compelled to go to them for good men.

JAY MACK.

HOW TO DO BUSINESS.—An Australian Subscriber (18/90) says: "The present day is the best the chemists have ever seen; money is easily made, not large fortunes, but competencies well proportioned to the capital invested. No chemist in Australia need be poor—the majority might be well off. Owing to the illness of my senior assistant, I am taking the counter until he recovers. This is a good business, and yet since I have been at the counter the cash takings daily are nearly double the usual for this season. Yesterday I sold to every woman who came into the pharmacy several lines she never thought about when she entered, and I have done the same to-day. A farmer's wife came for a box of horse-powders, value 1s. 6d. Purchase made. I thought she looked rather run down, and said so. To this she eagerly assented. I suggested a little phosphorus, strychnine, etc.; the resulting sales were: 1 bottle compound syrup of hypophosphites, 2s. 6d.; 1 lb. of borax, 1 lb. cream of tartar, one phisic ball, 10 lb. 'Cripple Salt' (one of my specialities), one tube of 'Lanoline,' 1 quart of phenyle, three cakes of camphor, 1 lb. of Epsom salts, 1 lb. baking-powder, plus the first purchase, the horse-powders. I nearly sold her a pound of nutmegs, but she remembered she had just bought some, but will purchase here next time. This I kept up the whole day." [What can be done in Australia can with tact be done elsewhere.—EDITOR C. & D.]

#### Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 225, (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

J. B. (15/51).—At whatever period of the year an auctioneer's licence is taken out the full year's duty has to be paid—viz., 10/. It expires on July 5.

Fallopian (8/13).—Butyr of antimony is not a scheduled poison; carbolic oil (1 in 20) is, 3 per cent. is not. Stavesacre soap may be *de minimis non curat lex*.

Witness (20/29).—A qualified chemist and druggist is not entitled to a professional fee when acting as a witness in a court. There is nothing, however, to prevent him demanding it.

J. H. A. (20/40).—There is nothing in your artificial-teeth handbill that lays any claim to special qualification to practise dentistry, and in our opinion it does not render you liable to prosecution under Section 3 of the Dentists Act.

Acidum (19/69).—The statutory regulations as to poison-bottles do not apply to mineral acids. Arsenical dip may be sold only by a duly registered chemist or a licensed person, either of whom (and not an unqualified assistant) is personally responsible for the signature of the seller in the poisons book.

F. W. D. (19/28).—It is necessary, in retailing a vermin-killer containing over 6 per cent. of strychnine, to sell it only to persons known to you or introduced by a known person, and to enter the sale in the poisons-book. The Poisons Act of Ireland places vermin-killers in Part 2 of the Schedule, but it is customary, notwithstanding, for entries to be made in the poisons-book when the vermin-killers contain arsenic or strychnine.

H. (12/68).—The only change which the new Act has made in regard to the conduct of the businesses of deceased chemists is to require a registered chemist as manager of each shop. There is nothing in the Act to require change of the trading name. Some theorising on that point has officially been indulged in, which you may with equanimity ignore until the Pharmaceutical Council reverses its practice of forty years, and establishes in the courts the inconsistency (if any) of its practice and a fresh meaning of Section 16 of the 1868 Act.



*Scots Subscriber* (16/38).—There is nothing in the Poisons and Pharmacy Act to affect an undertaking on the part of an employer to indemnify an unqualified assistant who is fined under the Pharmacy Act, 1868. There was a provision in the Pharmaceutical Society's Bill throwing the onus of sales by unqualified assistants upon their employers, but this has not been embodied in the Act. An agreement made before the Act will therefore stand. If the assistant is the manager of a branch shop, his employer may justifiably terminate the agreement as to that appointment, seeing that he must now by law have a registered chemist as manager.

*O. G.* (19/32).—(1) If you, a registered chemist, open a branch of your business in a neighbouring village you will not conform with the new Act by exhibiting your Minor certificate in the principal shop and the M.P.S. certificate in the branch. You must have another registered chemist as manager of one of the shops, and his certificate is to be exhibited in it. (2) The Act does not compel chemists and druggists to use the title "Pharmacist." This is entirely optional. (3) If your travellers take orders for arsenical weed-killer, the purchasers (not the travellers) must conform, along with you, to the conditions of the Arsenic Act. These require that the purchaser must be in your presence to sign the book before the arsenic-preparation is delivered.

*W. H. H.* (13/35).—The full name of a limited company, including the word "limited," must be painted or affixed on the outside of every office or place in which its business is carried on, and it must appear as seal or otherwise on every notice, advertisement, official publication, bill of exchange, promissory note, endorsement, cheque, order for money or goods, bill of parcels, invoice, and receipt or letter of credit. This continues as long as the company exists. The penalty for default is (in respect to premises) company and each director and manager 5*l.* and 5*l.* for every day. In other cases director, manager, or officer 50*l.* It is a common error that the word "limited" (or a contraction) must always be used by a company. It need not be used, *e.g.*, on labels and stationery, which are not within the above categories.

*W. A. P.* (20/46).—In his evidence before the Joint Select Committee on the Poisons and Pharmacy Bill, Mr. J. R. Hill, Assistant Secretary to the Pharmaceutical Society in Scotland, referring to the supply of sheep-dips to farmers by wool-brokers, said: "Such cases are exempt, as coming under the definition of wholesale transactions they are outside the restrictions of the Act." If this be correct, Section 2 of the new Act is of doubtful application, as its terms inferentially refer to sales by retail. Mr. Hill probably had in mind the exemption in Section 16 of the Pharmacy Act, 1868. We do not think that a firm of woolbrokers selling arsenical sheep-dips to farmers are covered by the exemption in Section 17 as to "sales by wholesale to retail dealers in the ordinary course of wholesale dealing." The facts indicate that they cannot be exempt, the purchasers not being retail dealers. Consequently the wool-brokers are placed in the position of retailers, and as they are not registered chemists it would be advisable for them to obtain a licence under Section 2. One of the conditions of holding a licence is that the statutory requirements respecting the sale of arsenic should be adhered to, and before delivery of the substance the poison-book must be signed by the seller and the purchaser.

### Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months. A preliminary condition for reporting on samples submitted is that all particulars as to source and uses are given to us.

*Circ.* (7/17).—The matter is one for the medical adviser. Otherwise your query is not suitable for these columns.

*W. S. & Co.* (249/63).—COMPOSITION OF LOTION AND OINTMENT. The lotion used as an irritant for the leg in eczema does not give satisfactory results on analysis. There are present aloes, sugar, zinc oxide, and a little white precipitate; the combined influence of which would probably have the irritant action desired. The ointment is, we think, a variety of compound resorein ointment, a good formula for which was given in the *C. & D.*, January 23, p. 132.

*Canary* (256/72).—CANARY PLUCKING OUT FEATHERS.—You do not mention whether the bird is a cock or a hen; if the latter, the cause usually is that she is breeding and pulls out her feathers to build a nest. This also holds good for the cock, and if he is not already mated, the sooner the better. To prevent, provide suitable nesting-material, such

as a piece of cotton, woollen, or linen rag, in the cage, and the bird will pull it asunder instead of stripping its own plumage. Old birds often strip the feathers off their young to obtain the moisture and sweetness out of the quill ends of the feathers; the only preventive is to put in separate cages and hang close together, and the old will feed the young through the wires of the cages.

*Subscriber* (16/28).—WOODEN TONGUE is treated on p. 231 of "Veterinary Counter Practice," fifth edition. The disease is a dangerous one, and communicable to man.

*Municipal* (259/58).—CHEWING-GUM.—The basis of modern chewing-gum is as follows:

Gum chicle	...	...	1 lb.
Powdered sugar	...	...	3 lb.
Flavouring ingredients	...	...	q.s.

The gum chicle is coarsely powdered, mixed with the sugar, and then heated in an evaporating basin until the mass softens. It is then well worked and transferred to a slab sprinkled with sugar, flavouring ingredients added, and the whole kneaded till uniform. Finally, roll out into thin sheets, and while still warm cut into flat sticks, using a little powdered sugar to prevent the mass sticking to the slab.

The flavourings are essential oils, used in the proportion of 1 to 2 dr. per lb. of finished gum. The flavours employed are peppermint, wintergreen, cassia, saffrafs, almond, cloves, vanilla, and orris. *Pepsin gum* is made by adding  $\frac{1}{2}$  oz. of pepsin to each pound of basis, *Kola gum* by the addition of 1 oz. of powdered roasted kola nut, and *Black gum* by using the same quantity of extract of liquorice. *Chocolate gum* contains powdered chocolate, and is flavoured with vanilla.

*M. G. C.* (Geneva) (10/57).—Elixir pinagistine is probably a proprietary medicine. We have not heard of it before.

*G. D.* (266/30).—HOOF OIL.—There are several recipes for this in "Pharmaceutical Formulas," of which the following is recommended:

Stockholm tar,	
Soft soap	... of each 4 lb.
Tallow	... 2 lb.
Fish oil	... 1 pint

Cheaper hoof applications are made with a resinates of soda basis and black pitch, but probably the above is what you require.

*Oak* (7/25).—Oak is stained green by the use of an aqueous or spirituous solution of malachite green. This method has replaced the verdigris process formerly employed.

*C. F. P.* (Copenhagen) (4/73).—HYDROCYANIC-ACID FUMIGATION.—The method of fumigating with hydrocyanic acid has not been given in the *C. & D.* for some time, so we repeat it. The chemicals required are either potassium or sodium cyanide and sulphuric acid. The acid is mixed with water and the cyanide, previously wrapped in paper, is dropped in, the operator at once withdrawing from the greenhouse and closing the door. The following shows the proportion of the ingredients:

Potassium cyanido	... 2 oz.
Sulphuric acid	... 3 oz.
Water	... $4\frac{1}{2}$ oz.

In regard to the amount of cyanide to use, this is adjusted according to the pest and the plant to be treated, but the quantity of cyanide used is never more than 0.25 gram per cubic foot. This proportion is employed in the case of well-matured and dormant nursery stock. The following are other proportions:

Orchard trees, outdoors	... 0.2 gram
Greenhouses	... 0.15 gram
Ferns	... 0.075 gram
Coleus	... 0.10 gram
Violets	... 0.15 gram
Roses	... 0.075 gram
Carnations	... 0.10 gram
Grapes	... 0.09 gram

From this table it will be seen that some plants are more sensitive to hydrocyanic-acid gas than others. The time of fumigation also varies; for trees it is thirty to forty-five minutes, for grapes the fumigation is effected overnight, in the case of carnations fifteen minutes is sufficient. To calculate the amount of potassium cyanide to take, multiply the cubic feet of space by the grams of potassium cyanide required (as shown above) and divide by 28.35 to reduce the amount to ounces. For fruit trees outdoors tents are erected, the cubic contents being reckoned from the height and width of the tent. The trees should not be drenching wet. Evening is the best time for fumigation. It is necessary to caution gardeners as to the deadly nature of the gas; instant death would be the result of entering a building full of hydrocyanic-acid gas. In the case of greenhouses, the windows are

arranged to open from the outside, and the place must not be entered until it has been thoroughly ventilated.

*F. & Co.* (15/3).—GLYCERIN OF THYMOL.—See *C. & D.*, April 3, p. 546. Thymol does not alter on keeping.

*T. H. P.* (259/56).—PHARMACEUTICAL LATIN GRAMMAR.—Ince's "Latin Grammar of Pharmacy" (5s., Baillière) is a standard work. Another work is Bennett's "Medical and Pharmaceutical Latin" (6s., Churchill).

*Kingsland* (1/18).—A water-soluble variety of chlorophyll is obtainable which is useful for colouring hair-washes.

*R. W. C.* (13/28).—SUGARLESS MARMALADE for diabetics is thickened with gelatin or apple pulp.

*E. R. R.* (16/46).—We know of no book which quite answers your requirements. The information is given in Squire's "Companion," together with much other useful matter, and the book is "cheap" in the sense of value for money.

*Canadian* (15/11).—SOLUBLE HEADING POWDER for ginger beer and aerated beverages:

Saponin	...	...	1½ oz.
Powdered gum arabic	...	...	1 oz.
Powdered white sugar	to	...	1 lb.

Mix well. The quantity to use is a tablespoonful for 10 gals. of ginger beer.

*G. W.* (15/41).—WANKLYN'S SOAP SOLUTION is made by dissolving 10 grams of best Castile soap in 1 litre of alcohol. Each c.c.=0.001 calcium carbonate. As the solution does not keep well, it is standardised by titrating with a standard hard water made by dissolving 1.11 gram calcium chloride in 1 litre of water. Each c.c. of this solution equals 0.001 calcium carbonate.

*F. & C.* (14/17).—DESTROYING WORMS ON LAWNS.—Water with (a) a solution of alum, (b) infusion of mustard, (c) lime-water, (d) half per cent. solution of ammonium carbonate, (e) solution of mercuric chloride. The last-mentioned is made by dissolving

Mercuric chloride	...	...	1 lb.
Hydrochloric acid	...	...	20 oz.
Water	...	...	1 gal.

To use, add a cupful of this solution to 10 gals. of water.

*Nil* (12/3).NON-POISONOUS NIT-OINTMENT.—See *C. & D.*, March 13, p. 442.

*R. T. S.* (258/57).—(1) PARIS GREEN used in horticulture as an insecticide and fungicide is aceto-arsenate of copper. It is also known as Schweinfurth green, imperial green, emerald green, mitis green, French green, and, when mixed with gypsum or heavy spar, as mountain or Neuwieder green. It is made as follows:

Five parts of verdigris (basic copper acetate) is made into a thin paste with water and added to a boiling solution of rather more than 4 parts of arsenious oxide in 50 parts of water; the solution is kept boiling during the mixing. If a yellow-green precipitate falls, a little acetic acid is added and the solution boiled a few minutes longer; the precipitate becomes crystalline, and soon acquires the characteristic green colour.

It is used in conjunction with lime as a tree-spray, the lime being stated to overcome the caustic effect of the Paris green. The proportion is—

Paris green	...	...	1 lb.
Lime	...	...	1 lb.
Water	...	...	150-300 gals.

When used dry it is customary to mix the Paris green with flour, soot, or gypsum, in the proportion of 1 in from 5 to 50. The liquid method of using Paris green is generally preferred.

(2) LONDON PURPLE consists mainly of calcium arsenate and arsenite with an organic dye residue, the substance being a by-product in the manufacture of certain dyes. It is employed in horticulture in like manner to Paris green, the chief advantage being the finely divided condition, which allows it to remain suspended in water for a long time. *Paris purple* is a variety of English purple of a very deep maroon colour. A chapter in "Pharmaceutical Formulas" is devoted to horticultural and agricultural preparations.

### Certificates of Qualification.

MR. DANCHEWERTS, K.C., is of opinion that the Minor and Major certificates comply with Section 3 of the Poisons and Pharmacy Act for exhibition in the premises managed by the holders. Those who have them do not require the Pharmaceutical Society's membership or shilling annual certificates (see *C. & D.*, April 10, p. 564). The names of the holders of the examination certificates who have qualified before 1909 should be on the current year's published register. We can give this information to any chemist who sends us a reply post-card.

## Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

**Synthesis of Laudanosine.**—Laudanosine (methyl-tetrahydropapaverine), an opium alkaloid, has been synthesised by Ainé Pictet and Mlle. M. Finkelstein (Paris Acad. des Sciences, April 5).

**Elaterin.**—According to A. Berg ("Comptes Rendus," cxlviii., No. 9) elaterin readily yields a diacetyl derivative with acetic anhydride. Molecular-weight determinations of the derivative give 565 and 575. The mean would agree with the author's proposed formula for elaterin,  $C_{28}H_{45}O_7$ .

**Alkaloidal Content of Yew-leaves.**—Mr. R. J. Moss, in a communication to the Dublin Royal Society, states that the freshly gathered leaves of the common yew (*Taxus baccata*) contain 0.082 per cent. of taxine, while those of the Irish or Florence Court yew (*Taxus baccata* var. *fastigiata*) yielded 0.326 per cent. of alkaloid from one tree and 0.623 per cent. from another grown in the same place. Taxine was found in the seed of the fruit only, 0.079 and 0.082 per cent. being yielded by two samples of seeds. The wide variation in the amounts of contained alkaloids may account for the contradictory statements prevalent concerning the toxicity of yew-leaves. The popular notion that yew-berries are harmless when eaten, provided the stones are not swallowed, is readily explained by the above.

**Cynotoxin.**—Horace Finemore ("Proc. Chem. Soc.," No. 353, p. 77) describes cynotoxin,  $C_{28}H_{45}O_{11}$ , as a well-defined substance with an extremely bitter taste, crystallising in small, apparently rhombic prisms, and melting with decomposition at about 165°. It is sparingly soluble in water and the usual organic solvents. Cynotoxin is obtained from the aqueous solution of the alcoholic extract from the root of *Apocynum cannabinum* by extraction with chloroform, the apocynin being removed by means of ether. Pharmacological investigation by Mr. P. P. Laidlaw, M.B., shows that it is an extremely potent principle of the digitalis group, being either a dilactone of Kiliani's digitic acid,  $C_{28}H_{45}O_{11}$ , or a closely related isomeride. Cynotoxin produces symptoms identical with the parent drug, while apocynin (aceto-vanillone) possesses only negligible pharmacological properties.

## Contracts.

The following have been decided since our last report:

Romford Urban Council.—Mr. J. W. Lasham, Ph.C., Romford, for disinfectants.

Hertford and Ware Joint Hospital Board.—Mr. S. Lewis, Ware, for medical sundries.

Swindon and Highworth Guardians.—Green & Co., Swindon, appointed chemists for six months.

Wigton Guardians.—Mr. G. Fisher, chemist and druggist, Wigton, appointed chemist for three months.

Aylesbury Urban Council.—Mr. E. T. Palmer, chemist and druggist, Aylesbury, for Izal at 3s. 6d. per gal.

Bristol City Hospital.—Ferris & Co., 1 td., Bristol, for drugs, chemicals, etc., to the value of 146l. 12s.

Moffat Town Council.—Mr. George Little, chemist and druggist, Moffat, for drugs during the ensuing year.

Carlisle Guardians.—Mr. Peter Simpson, Jun., chemist and druggist, Church Street, Carlisle, appointed chemist for six months.

Barnes District Council.—Burt, Boulton & Haywood, Ltd., for the year's supply of disinfectants for the Highways Department.

Heston and Isleworth District Council.—Allen & Hanburys, Ltd., for annual supplies of druggists' sundries (except carbolic acid) to the Isolation Hospital.

Whitby Urban Council.—Mr. J. Frank, Ph.C., Bridge Street, and Mr. J. Brooks, chemist and druggist, 15 Flower Gate, Whitby, appointed chemists for a year.

Waterloo with Seaforth Urban Council.—Taylor's Automatic Disinfectant, Ltd., Liverpool, for carbolic powder; Killgerm Co., Ltd., for carbolic acid; Standardised Disinfectants Co., Ltd., for fluid-disinfectants.

Truro City Council.—United Alkali Co., Ltd., for chloros at 2s. 3d. per gal.; Burt, Boulton & Haywood, Ltd., for carbolic acid at 1s. 1½d. per gal., carbolic powder at 4s. 4d. per cwt., and sulphur candles at 15s. per half gross.



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, APRIL 24, 1909.

## PUBLISHER'S NOTICE TO ADVERTISERS.

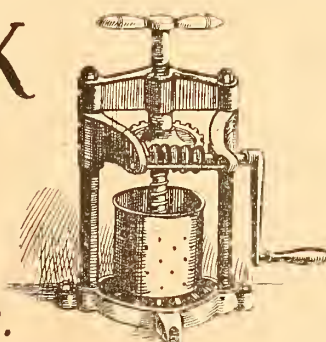
Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the **PREPAID CLASS**, and to ensure the due insertion of the announcements the remittances must accompany the instructions. A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

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2.—LONDON (West End).—Retail and Dispensing Business; capital situated in good middle-class residential locality; returns between £1,150 and £1,200 per annum; net profit £351; 21 years' lease; price £1,000; capital opening for Photography.

3.—LONDON, S.E. (Residential Suburb).—Good-class Dispensing and Retail Business; returns about £1,100 per annum; profits above the average; large shop, fitted in mahogany; comfortable residence; rent £75; no serious opposition; price £875.

4.—LONDON, W.C.—Established Business; Retail, Dispensing, and Prescribing; good opening for Dentistry; returns £20 weekly (present rate); net profit about 25 per cent.; large double-fronted shop; corner position; price £700, or near offer.

5.—LONDON, N.—Main thoroughfare; old-established Business, held by vendor 26 years; returns, under management, average over £500; present rate less; roomy shop, double fronted; rent £60 yearly, held on lease; offer wanted.

6.—BANKS OF THE THAMES.—General Retail and Prescribing Business; established 1902 by vendor; returns £720, increasing; gross profit 50 per cent.; rent £60 yearly; price £350.

7.—MIDDLESEX (Few Miles Out).—Attractive Pharmacy, situate in main thoroughfare; returns about £650, which produce a net profit of £208; terms, lease, and goodwill £50; stock and fixtures at a fair valuation.

8.—HOME COUNTY.—Modern Pharmacy; chiefly Ready money; average returns £920; net profit £245; roomy shop, well fitted in mahogany; rent moderate; long lease; price £360.

9.—NORTH OF ENGLAND.—Modern Pharmacy; well situate in the centre of town; returns (present rate) £1,600; attractive double-fronted shop, corner position; large residence; private entrance; price £1,250.

10.—NORTH WALES (Health Resort).—General Retail and Agricultural; all good middle-class business; returns between £600 and £700; gross profit about £300; double-fronted shop, well situate in the centre of town; roomy house; new lease will be granted; offer wanted; illness cause of sale.

11.—YORKS (Health Resort).—High-class Dispensing and Retail Business; returns (including small branch) about £900; profits above the average; immediate sale desired; no reasonable offer refused; ill-health cause of sale.

12.—SURREY (Charming Locality).—Old-established Business; held by vendor about 50 years; returns £1,050; profits above the average; double-fronted shop; central position; early sale desired; full investigation invited.

13.—NORTH WALES.—Mixed Business; established many years; returns average £1,020 per annum; net profit 20 per cent.; well-fitted shop; corner position; good house; price about £600.

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LONDON, S.W.—Middle-class Retail, Prescribing, and Photographic; great scope for increase; no serious opposition; returning under unqualified manager £865; has done more than £1,000; net profit £245; good premises; to effect a quick sale will accept the low figure of £360; great bargain.

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6.—LANCS (Small Town).—Light Retail, Prescribing, and Photographic; in central position; returns over £600; net profit £185; good house and shop; price £300 or valuation.

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8.—LONDON, S.W.—Light Retail and Dispensing Business, in main road; returns over £600; net profit £215; well-fitted shop; good stock; price £475; every investigation courted.

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11.—NORTHERN COUNTY.—Sound General Retail, Prescribing, and Photographic Business; returning over £2,600; splendid position; large shop, well fitted and heavily stocked; price about £1,800.

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13.—KENT.—Old-established Light Country Retail Business, in best position of small town; unopposed; returns £800; net profit £300; easily worked; large house and garden; price £535.

14.—NORTH WALES (Health Resort).—Good-class Retail and Dispensing, with Optics and own Proprietaries; returns £870; net profit £290; splendid position; weak opposition; price £650.

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(continued.)

**F**IRST-CLASS Retail and Dispensing Business, within 30 miles South of London, on main line; returns approach £1,500; no Store competition; net profit £434 (proof given); modern Pharmacy, handsomely fitted and well stocked; splendid position; good residence attached; price £1,200; valuation terms entertained if preferred. "H. H." (8/38), Office of this Paper.

**F**OR Disposal, Chemical Packer's Business and Premises, with good trade; no goodwill; with or without stock. Write, W. Robinson, 1 Holmbury View, Upper Clapton, London, N.E.

**F**OR Sale, Dispensing and Retail Business in Edinburgh; good opening for Photography; splendid chance for one with a little capital; no agents need apply. 12/33, Office of this Paper.

**G**ENUINE Business: last 12 months' returns £630; present rate £720; anyone able to give whole attention can easily do £1,000; healthy suburb; good house; long lease; rent £50; shop fitted with electric light; patents very low; principally drugs; profits exceptionally large; £500. Apply, 10/2, Office of this Paper.

**G**ENUINE old-established Light Retail Business: an hour's journey from London; returns over £800; excellent profits; scope to do £1,200; good house and garden; price £535; must be sold immediately. Apply, "Leo" (10/40), Office of this Paper.

**G**ENUINE unopposed Country Business for immediate Disposal; market town; General, Retail, Prescribing, Agricultural, and Photographic; good opening for Dentistry and Optics; population 2,000; low rent; easily worked; short hours; returns £700; good profits; price £475 for cash. "Pharmacist" (9/17), Office of this Paper.

**G**ENUINE Cash Business near London; double-fronted shop; house and garden; rent £30; no opposition; returns for last 3 years average £360; price to immediate purchaser £160. 12/30, Office of this Paper.

**G**OOD Opportunity for Chemist.—Small Soda-water Plant and Syphons for Sale, and small Business situated South London suburb; widow finds it difficult to continue the business, and would dispose of same on very reasonable terms. Apply, "Syphons" (5/17), Office of this Paper.

**H**EALTH Resort, county town and yachting station, West Coast; high-class old-established Dispensing, Optical, and Retail Business; excellent and annually increasing connection; only one opposition in town (unqualified) and for a distance of several miles; owner leaving country; low price to dispose before summer season; good premises; low rent. "Alpha" (22/38), Office of this Paper.

**H**IGH-CLASS Dispensing and Retail Business for immediate Disposal; beautifully fitted; in healthiest suburb of London; returns £1,920; excellent Proprietaries; registered names; prospective purchasers must give references; proprietor retiring. "Z." (8/33), Office of this Paper.

**R**EFRACTIONIST and Optical Business for Disposal in leading London suburb, showing net profit of nearly £200 annually; well-fitted shop; price for stock and fittings £400. Write, "Optical," Sell's Advertising Offices, Fleet Street, E.C.

**R**ETAIL and Dispensing Business; capital situated in good middle-class residential locality; returns £700; net profit 25 per cent.; double-fronted shop; well-assorted stock; house contains 10 rooms; rent £65; lease 17 years unexpired. "Brighton" (13/11), Office of this Paper.

**R**ETURNS £500 (about).—In important town in the Midlands; commanding position in main street; Light Retail and Dispensing Business, with Photographic; several valuable Proprietaries; good profits; cause of sale, ill-health; price £350, or valuation of stock and fixtures; immediate possession. "Phenacetin" (280/26), Office of this Paper.

**R**ETURNS £350 under Junior Assistant; Cash Retail, Photographic; good opening for Dentistry; energetic business man would easily double returns; good main road position, London; present proprietor cannot spare time to attend owing to other business; prompt purchaser liberally treated; cash required about £120. Apply, with references, 13/35, Office of this Paper.

**£40** will purchase a good Drug-store in East London; splendid chance for unqualified Chemist; thickly populated district. 12/40, Office of this Paper.

**£350**, or near offer, and part can remain; genuine bargain; a modern-fitted Drug-stores; fitting of shop cost £250; immense stock; rent £40, on lease; large house; weekly takings average £13; no opposition; great scope for increase; suit smart man; a trial allowed. Apply, "P. H.," 13 Kitchener Road, Forest Gate, E.

**£130**; London, N.; a genuine old-established Business; well stocked; returns over £300, increasing weekly; no opposition; profits average over 50 per cent.; under qualified management offers splendid prospects; will bear investigation. Apply, "Owner," 35 Bridge Road, Hammersmith, W.

**£350**.—Profitable Dispensing, Prescribing, and General Retail Business, with popular Speciality; near London; only opposition under management; large stock; thoroughly genuine, and open to fullest investigation; part can remain; satisfactory references given and required; bona fide purchasers only. "Stadium" (11/25), Office of this Paper.

**£1,000** required for a good-class Dispensing, Retail, and Prescribing Business, in good position and showing clear net profit of £400 per annum; takings increasing; fine living accommodation; South-western district of London. 11/18, Office of this Paper.

## TENDERS.

### NOTICE TO MANUFACTURERS OF CHEMICALS.

**T**HE Director-General, Ordnance Survey, is prepared to receive applications from any firm which is willing to Tender for the supply of CHEMICALS for PHOTOGRAPHIC and other purposes.

Applications for Forms of Tender and Specification should be made to the Officer in Charge of Stores, Ordnance Survey Office, Southampton.

All Tenders must be submitted before noon on MAY 19, 1909.

## SALES BY TENDER.

**C**HEMICAL STOCK.—Under distress for Rent.—A Stock of Ammonium Bicarbonate contained in 30 casks, and 65 stone-ware jars, with two 3-necked stoneware receivers, now stored at Irongate Yard, Wandsworth Bridge, for SALE by TENDER at 12 noon on THURSDAY, April 29.

Particulars and conditions of sale of Wheeler Brothers, Auctioneers, 1 Sydney Street, Fulham Road, Chelsea, and 4 Harwood Road, Broadway, Walham Green. Phone, Kensington 1687 and 1739.

## FOR SALE.

**F**OR Sale, the entire Stock, Accessories, and Fixtures of a small but well appointed Pharmacy in London district; a gentleman about opening a Pharmacy may acquire the whole for about £50, or would separate. "Sagrada" (11/21), Office of this Paper.

**C**OMplete Fittings, second-hand, comprising mahogany drawers, cupboard, shelving, wallcase, counters, with 14 good drawers, dispensing-screen, counter-cases, 200 shop bottles and jars, 2 carboys, scales and weights, measures, and utensils; also small stock of Drugs and Sundries: the lot for £30. R. Tomlinson & Sons, Bond Street, Constitution Hill, Birmingham.

**C**OMplete Stock and Fixtures of an up-to-date Chemist's Shop for Sale; mahogany fittings alone worth £150; full stock well kept up, and in perfect working order; could be had as going concern; taking £10 weekly; would accept £200 for quick sale. Apply, 9/10, Office of this Paper.

**O**FFERS wanted for the remainder of the Stock of Dixon & Mawer, Ltd., Chemists and Druggists, 2 St. James' Street, Nottingham; same can be inspected on the premises, and must be cleared at once. A. G. Mellors, Liquidator.

## BUSINESSES WANTED.

**I**N Lancashire, Yorkshire, or North Midland manufacturing town, a sound Mixed Business showing a net profit of at least £200 to £250 a year; preference given to place with good living accommodation and a Wine-licence. State full particulars and lowest cash price. Apply, 14/6, Office of this Paper.

**W**ANTED, in Southern, Midland, Eastern, and Northern Counties, Businesses returning from £800 to £3,000; Messrs. Berdoe & Fish have cash buyers waiting to secure genuine concerns; intending vendors should communicate with the above firm at their Transfer Valuation Offices, 35 Jewry Street, Fenchurch Street, E.C. Established 1870.

## APPRENTICESHIPS.

**A**PPRENTICE.—Pharmacist N. G. Beck, Burgess Hill, Sussex, has a vacancy for a well-educated youth as indoor Apprentice; moderate premium; home comforts and every opportunity of learning the business; must have passed Preliminary examination or its equivalent.



## TO LET.

**HARROGATE.**—Lock-up Shop and spacious Cellarage to Let shortly; central; busiest thoroughfare; capital opening for Chemist. Procter, 6 Oxford Street, Harrogate.

**HIGH STREET, Harlesden.**—Modern Shop to be Let, in the best position, with excellent living-rooms and back entrance; a first-rate opening for a Chemist and Druggist, in an established centre; rent £110 per annum, with a period free, or the shop might be fitted. Apply to Messrs. H. E. Foster & Cranfield, Surveyors, 6 Poultry, E.C.

**COMMANDING** monopoly of trade of enormous good-class established residential district, 8 miles from City; bold corner premises, on main road; excellent living-rooms; side entrance; rent £90; exceptional opening for Chemist. Fowler, Richardson & Pottier, Surveyors, 74 Cheapside, E.C.

**EXCEPTIONAL** position for Chemist; Walkden Buildings, Stockwell Gate, Mansfield; commodious, modern salesshop, with large room over; rent £35. Apply, Baker Halford & Sons, Nottingham.

**HOUSE and Shop to Let in High Street, Herne Bay;** splendid opening for beginner; moderate rent, £30 year; about one-third of town, comprising 3,000 inhabitants, with no Chemist to supply them at that end; number of inhabitants nearly trebled in season; splendid shop-front. Apply, "X," at 48 William Street, Herne Bay.

**TO Let or Sell, Chemist's Shop;** fixtures, etc., at small valuation; main street; no opposition; possession immediately. Crossman, Great Bardfield, Essex.

## PARTNERSHIPS.

**ABOUT** £550 will purchase an equal Partnership in a progressive North Country business; present partner going abroad; would suit young qualified Chemist, as arrangements could be made for complete purchase of business in a few years on easy terms. "Detail" (10/24), Office of this Paper.

**PARTNERSHIP.**—Wanted, within the next six months, by young qualified Pharmacist (31), Partnership in sound, prosperous business situated in large town; London preferred; must bear strictest investigation; capital at disposal between £300 and £400, with securities for additional sum if necessary. Full particulars to "Euthymol" (269/29), Office of this Paper.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.

**RESULTS**  
OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK *Apr 17* 1909

NATURE OF ADV.	REPLIES
UNQUAL. ASSIST.	60
EVENING WORK	52
LOCUM	37
CHEMIST (WHOLESALE)	30
UNQUAL. JUNIOR	29
DISPENSER	21

A man in a suit and hat stands next to the blackboard, pointing at the results.

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

## RETAIL.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

## STILL THEY COME.

Mr A. ATKINSON, Pharmacist, of Harrogate, writes:—

April 19.—"I thought I should like to let you know the result of my advert. in your last Supplement for an Assistant. I have had 37 replies to my advert. up to now, Monday. It is quite impossible for me to write and thank all the gentlemen who have written, and if it is possible for you to express my thanks to them I should be extremely obliged."

April 20.—"Following up my letter of yesterday, I have had 6 more applications to-day, which makes 43 in all, to my advert. in last week's Supplement."

**BLACKPOOL.**—Pharmacy Manager, with view to early succession, for long established Light Retail and Proprietary business; main thoroughfare; modern, well-fitted, and commodious premises, offering ample scope for a large and increasing business with personal and thoroughly interested management. Apply, Oliver L. Jackson, Pharmacist, Church Street, Blackpool.

**BRADFORD.**—Wanted, good Improver or Junior; 18 to 25; Extractor preferred, but not essential; weekly half-holiday; no Sunday duty. Apply, stating full particulars, salary, etc. (photo if possible), "Galen," 190 Gladstone Street, Bradford.

**BRIDGWATER.**—Wanted, Manager for country shop; good house and garden; gas free; healthy situation; business much neglected; excellent prospect for capable man; knowledge of Agricultural trade, Photography, and Extractor preferred; salary and commission; qualification not essential. Apply, with full particulars, to B. D. S., High Street, Bridgwater.

**BRIGHTON.**—Qualified Assistant wanted for high-class Retail and Dispensing business; indoors. State usual particulars, S. J. Weston & Co., Church Road, Hove.

**BRIGHTON.**—Qualified Assistant (indoors), about 24 years of age, in high-class Dispensing business, for May 12. Apply, with particulars, to W. H. Gibson, 122 King's Road, Brighton.

**BRISTOL.**—Qualified Assistant for Relief work at branch shops; energetic; experienced; accustomed to brisk Retail; satisfactory references required; outdoors; no Sunday duty. State age, height, salary, references, and enclose photo to Managing Director, Henry Hodder & Co., Ltd., 5 Nelson Street, Bristol.

**BROMLEY (Kent).**—Junior or Improver (indoors), with knowledge of Homœopathy preferred, though not essential. Apply, stating age, height, references, and salary required, with photo, to R. Skinner, 26 Widmore Road, Bromley, Kent.

**BROMLEY.**—Wanted, Junior, for good-class Family and Dispensing business; must have good references. Apply, with full particulars, Timmis, Chemist, 147 Mason's Hill, Bromley, Kent.

**CHELtenham.**—Nathl. Smith & Co. require a Dispensing Assistant; indoors; principal non-resident. Apply, with full particulars, 373 High Street.

**CITY.**—Wanted, for end of May (outdoors), an experienced and trustworthy Assistant, aged about 26; qualification not essential, but must possess good appearance and be a first-class Salesman. Full particulars (in confidence) to "Pharmacist" (8/36), Office of this Paper.

**CITY.**—Young Junior Assistant wanted; outdoors; hours 9 to 8; no Sunday or night duty. Apply, "X. Y. Z.," Ranahan, Fitzjohn's Avenue, Barnet, Herts.

**EDINBURGH.**—Smart Assistant for Counter work; one accustomed to quick Store trade preferred. State age, experience, when at liberty, and salary required, also enclose photo if possible, Inman's Stores, Ltd., Cash Chemists, 48 Shandwick Place, Edinburgh.

**FALMOUTH.**—Wanted, unqualified, for good-class Dispensing and Photographic business; outdoors; half-holiday weekly; good knowledge of Photography essential. Apply, stating age, height, salary required, etc., to Wilmer & Hocking, Chemists, Falmouth.

**GAINSBOROUGH.**—Wanted, middle of May, smart Junior, outdoors, for Light Retail and Photographic business; one used to country market town preferred; hours 8 to 8, Saturdays 10, Wednesdays 1.30; no Sunday duty. Apply, White, Chemist, Gainsborough.



# SITUATIONS OPEN *(continued).*

**GRAVESEND.**—Qualified Assistant, June 1st, for Light Retail and Dispensing business; closed on Sundays and at 2 P.M. Wednesdays; rooms provided but not board, proprietor living away; good references indispensable; vacancy caused by present assistant leaving after 10 years' residence to commence his own business. Apply, R. Feaver Clarke, 21 High Street, Gravesend.

**LIVERPOOL.**—Wanted, unqualified Assistant; aged about 26; good all-round experience; no Sunday duty; good references required. Apply, stating experience and salary required, to H. C. Woodhead, Chemist, 16 Paradise Street, Liverpool.

**LONDON, N.**—Wanted, at once, a qualified Manager; outdoors. Apply, with two references and salary required, 10/22, Office of this Paper.

**LONDON, S.W.**—Wanted, at once, Junior Assistant; about 21; indoors; accustomed to Dispensing and Photography; would suit one requiring time for study. Apply, Rex Blanchford, Chemist, 76 High Street, Wimbledon.

**LONDON, N.W.**—Part-time Assistant wanted with Dispensing experience. Apply, with usual particulars, to W. H. Bell & Co., 96 Albany Street, N.W.

**LONDON, S.W.**—Qualified Assistant; indoors; must have had good experience in Dispensing. Apply, giving full particulars with photo (to be returned), to W. A. Goodall, Pharmaceutical Chemist, 25 Fulham Road, S.W.

**LONDON, E.**—Manager wanted for branch; qualified and able to develop business; salary £150 and commission; free house in first-class condition; fullest references required; Junior or Improver also wanted. Apply, 13/13, Office of this Paper.

**LONDON, W.**—Qualified man wanted; elderly preferred. Apply, before 10 A.M., 70 Tottenham Court Road, W.

**LONDON, S.E.**—Wanted, an unqualified Assistant; outdoors; must be a quick and accurate Dispenser, with knowledge of Photography preferred. Apply, by letter, giving usual particulars as to age, height, salary required, references, to J. W. Rumsey & Son, Pharmaceutical Chemists, 481 Lordship Lane, S.E.

**LONDON, S.W.**—Qualified Assistant; Scot preferred; outdoors; quick Cash business; one afternoon and evening from 2, no Sunday duty; an excellent opportunity for promotion for a capable man. State age, height, salary, when disengaged, and enclose photo, Bruce's, Ltd., 387 North End Road, Fulham, S.W.

**LONDON, W.**—Qualified Assistant required (under 30), for good-class Dispensing and Photographic business; outdoors; exceptional opportunity for acquiring London experience. Applicants are requested to furnish full particulars, salary required, references, etc., to "Chemist," 2 Elmwood Gardens, Aotou Hill.

**LONDON, W.**—Qualified Senior; about 30; indoors; 3 sharing duties; town experience essential; personal application desirable. Hooper, Struve & Co., Ltd., 7 Pall Mall East, S.W.

**LONDON, S.W.**—Wanted, reliable Assistant; accustomed to good-class Dispensing business; age 23 to 28. Apply, personally if possible, H. J. Perrett, 90 Victoria Street, S.W.

**LONDON, E.**—Qualified Junior Assistant; outdoors; one day off weekly; Sundays 6.30 P.M. to 9.30 P.M.; permanency to suitable man; wanted about second week in May. Full particulars, age, salary, etc., Lacy, Chemist, Aldgate Drug-stores, 116 High Street, E.

**LONDON, E.**—Wanted, at once, a smart, young, qualified Manager, with good references; salary 50s. week (outdoors). Also a middle-aged, qualified Assistant; salary 45s. week. Apply to Ballard, 393 Commercial Road East, London.

**LONDON, N.W.**—Part-time Assistant; comfortable home; board in; sleeping room out; moderate salary and time for study offered to gentlemanly man about 24; one accustomed to brisk Retail preferred. W. C. Tucker, P.O., Queen's Crescent, N.W.

**LONDON, W.**—Wanted, qualified Assistant (indoors) with high-class Dispensing experience. J. Munro & Co., Ltd., 275 Regent Street, W.

**LONDON, S.W.**—Immediate; wanted, a qualified indoor Junior Assistant with good Dispensing experience. Apply, with full particulars, photo, and salary required, to J. B. Barnes & Son, 225 and 227 Knightsbridge, London, S.W.

**MANCHESTER District.**—Qualified Assistant (outdoors), age not under 24 years, required as Branch Manager; must be energetic and a capable Counterman, with Dispensing and photographic experience. Address, stating when at liberty, age, height, references, salary, etc., and enclosing photo (to be returned), to T. Woodruff, Pharmacist, West Didsbury, Manchester.

**MANCHESTER.**—Qualified Assistant wanted (about 24 years of age), outdoors, to manage Branch, Light Retail; abstainer preferred; full particulars, with wages required, and photo if convenient. Address, Gill & Son, Pharmacists, Pendleton, Manchester.

**MANCHESTER.**—Wanted, immediately, unqualified Assistant; outdoors; aged about 23; accustomed to high-class Retail and Dispensing business. State age, height, salary, references, and photo if possible, to R. H. Wheelton, Pharmacist, West Didsbury, Manchester.

**MANCHESTER DISTRICT.**—Wanted, qualified Branch Manager; one used to Drug-stores preferred; must be of good appearance and competent to take sole charge; one desiring a permanency preferred. Send full particulars as to age, salary required, photo, and references, to "X. X.," care of C. Harrison, Chapel Street, Victoria Bridge, Manchester.

**MIDDLESEX.**—Wanted, unqualified Assistant for Light Mixed Retail business; outdoors. State usual particulars, age, salary, etc., to W. Luty Wells, Yiewsley.

**MID-WALES.**—Manager for Branch, qualified, married, wanted for country business; Welsh language not necessary; must be steady and have best references and seeking a permanency. Apply, stating age, salary required (outdoors), to "Mid-Wales" (3/9), Office of this Paper.

**PUTNEY, S.W.**—T. Jones & Co. require a qualified Assistant; about 23 or 24; must have good references and be accustomed to good-class business; good salary to suitable man. Apply, personally or by letter, with photo (if convenient), to Mr. Amore, 5 Putney Hill, S.W.

**RANGOON.**—Qualified Assistant required for a British firm of Chemists; single; age about 25; 4 years' agreement; salary £200 per annum and advance of £20 each year; second-class passage paid out and home. Apply, "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

**ROYAL BERKSHIRE HOSPITAL.**—Wanted, an Assistant Dispenser (Male); salary £95 per annum, dinner provided; candidates must possess the Minor qualification. Applications, stating age and experience, and accompanied by copies of not more than three recent testimonials, must reach the Secretary not later than Thursday, the 29th inst. Herman Burney, Secretary. Reading, April 6, 1909.

**SOUTH COAST.**—Qualified Manager, immediately, for small Branch; good-class Dispensing and Photographic. Kindly send full particulars, previous experience, age, height, when disengaged, salary required, and photo, "Medrinal" (11/2), Office of this Paper.

**SOUTH OF ENGLAND.**—Smart, gentlemanly, qualified Assistant required; aged 23 to 30; good salary and permanency for suitable man; must possess exemplary character for honesty, sobriety, and ability as a salesman. Timothy White Co., Ltd., Portsmouth.

**STRAITS SETTLEMENTS.**—Qualified Junior Assistant; about 23; first-class experience indispensable; 3 years' engagement; passage paid out and home; improving salary. Apply, Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate Street, E.C.

**TORQUAY.**—Qualified Manager for Dispensing business; outdoors; married preferred. Applicants please give full particulars of experience, state age and height, and, if possible, enclose photo, Fredk. March, 90 Belgrave Road, Torquay.

**WELLS (SOM.).**—Junior; indoors; of good address and gentlemanly manners; good references essential. Apply, stating age, experience, etc., with photograph (to be returned), to Wilson, Pharmacist, Wells.

**WOODBIDGE.**—Wanted, at once, for good-class Mixed country business, a qualified Assistant of gentlemanly habits and good address, and capable of taking entire charge; comfortable home with family. Apply, with usual particulars, stating salary required, and enclosing photo, to Alfred Gail, Woodbridge, Suffolk.

**ASSISTANT;** qualified; indoors; capable of taking charge of small branch; no Sunday duty; S.E. district. State age, salary required, Harpy, c/o Evans Lescher & Webb, Bartholomew Close, E.C.

**COMPETENT** Assistant required for good-class Store business in Midlands; state age, salary required, and references; preference given to abstainer; must be good Window-dresser. Apply, "Chemist" (7/40), Office of this Paper.

**GENTLEMAN,** qualified, and experienced Dispenser, required for large West-end Dispensing business. Please state salary (outdoors), giving full references and say if disengaged, to "Statim" (21/63), Office of this Paper.

**JUNIOR;** aged about 20; must be smart and good Window-dresser; knowledge of Photography desirable; business, Light Retail and Dispensing; short hours; half-day weekly; no Sunday duty; within easy reach of Manchester. Apply, with photo and usual particulars as to salary, etc., to "Tinctura" (6/12), Office of this Paper.



**L**ADY Dispenser required at Hospital; Locum; Hall. Apply, "C. Z." (8/14), Office of this Paper.

**L**ARGE firm require a good qualified Assistant for working-class business; lucrative permanency offered to a smart man not afraid of work. 22/72, Office of this Paper.

**M**ANAGER for Branch; qualified; with or without view to succession; Mixed Light Retail; no Photography; married preferred; seaside resort; house free; wanted for about May 14. State salary required, references, experience, and full particulars to save correspondence. "Juno" (10/13), Office of this Paper.

**M**R. STAMP has a vacancy for a qualified Assistant. App with references, to 29 High Street, Hampstead, N.W.

**Q**UALIFIED Manager wanted for Branch, London, N.; married; age about 27; must be smart Salesman and Prescriber. Apply, with full particulars and photo, to W. A. McCarthy, Chemist, Grays, Essex.

**Q**UALIFIED Chemist wanted in quick, middle-class business in Lancashire; must be energetic and young; state salary and full particulars; no Sunday duty and half-holiday. Apply, "X." (7/16), Office of this Paper.

**Q**UALIFIED Assistant; Branch, 6 miles from Cardiff; indoors; Welsh preferred, but not necessary; aged about 26; good appearance and address. Full particulars and salary first letter (photo if possible), Bellamy, Cardiff Road, Taffswell.

**Q**UALIFIED Junior for season (May to November); one with foreign experience preferred. Apply, with full particulars and previous experience, age, height, etc., and stating salary required (indoors), to Roberts & Co., 76 New Bond Street, W.

**Q**UALIFIED Assistant, Welsh speaking preferred, is wanted for a Retail business in a seaside town; knowledge of Photographic business essential. Applications, stating age, experience, reference, and salary required (indoors), Bowen, Chemist, Criccieth, North Wales.

**Q**UALIFIED Assistant for Mixed Country business; middle age; indoors. State age, experience, and salary required; must have good references; comfortable home; permanency to suitable man. Apply, F. W. Fitch, Main Street, Littleport, Cambs.

**W**ANTED, at once, qualified man to Manage Retail Department doing about £25 weekly; a boy to assist. Apply, stating age, qualification, experience, salary required, and when at liberty, Stocksbridge Band of Hope Industrial Co-operative Society, Ltd., Stocksbridge, near Sheffield.

**W**ANTED, experienced Branch Manager for West-End Store business. Apply, by letter in first instance, to "Mayfair" (22/30), Office of this Paper.

**W**ANTED, for seaside, unqualified Assistant; used to good Mixed Counter, Retail; salary (indoors, private sitting-room) £40; moderate hours; must be sober; comfortable berth to suitable man. L. A. Williams, Chemist, Porthcawl.

**W**ANTED, qualified Branch Manager; married preferred; must have best of references and be a smart Counterman; permanency to good man; half-holiday weekly; no Sunday duty. State wages required and give references from last two employers, Thompson's, Cash Chemists, Ashton-under-Lyne.

**W**ANTED, in Ripon, immediately, trustworthy Junior Assistant, for at least 3 or 4 months; good appearance and address. State age, height, and reference. Light Retail; close 7 p.m.; half-day weekly; no Sunday duty. Photo (to be returned), "Chemist," Kirkgate Head, Ripon.

**W**ANTED, reliable, active, qualified Manager for Country Druggists' business; agricultural district; small town; middle-aged single man or widower offered comfortable home; light duties; must be strictly temperate; abstainer preferred; highest references to ability and personal character; moderate salary (indoors). Full particulars, C. Thurston, Newent, Gloucestershire.

**W**ANTED, for City business, qualified Assistant; about 24; must have first-class experience; short hours; no Sunday duty; personal interview necessary. Apply, 13/4, Office of this Paper.

**W**ANTED, at once, qualified man, about 25 (outdoors), for Light Retail and Dispensing business with Photographics; Sunday duty about 4 hours every third week. Apply, stating full particulars to C. Breese, 73 Mitcham Lane, Streatham, S.W.

**W**ANTED, Improver; indoors; one who has passed his Preliminary preferred; time and facilities given for study; nominal salary first six months. Particulars to "Pharmacist" (6/8), Office of this Paper.

**W**ANTED, for the South Coast, a Junior; time for study; one who has just completed his apprenticeship preferred; knowledge of Photography necessary. "H." (14/9), Office of this Paper.

**£120** per annum, with rooms, light, etc.; qualified Manager wanted for Branch in London suburb; weekly half-holiday; no Sunday duty. 9/13, Office of this Paper.

## WHOLESALE.

**A**NALYTICAL Chemist, by London Wholesale Druggists; thoroughly competent in assaying Drugs, taking Spirit Strengths, and Standardising Pharmaceutical Preparations, etc.; preference given to one with some knowledge of General Laboratory work. Apply, with full particulars, to 15/2, Office of this Paper.

**C**ERTIFIED Apothecary wanted in the services of an established firm of manufacturing Chemists; reply with full particulars as to experience, age, and salary required; duties being light an elderly man not objected to. Apply, "Y. Z." (13/9), Office of this Paper.

**C**HEMIST required by small Wholesale provincial house; must be well up in the manufacture of Galenicals and general household preparations suitable for a packing speciality business; partnership might be arranged later if found suitable and thoroughly industrious. State age, salary required, and full details of previous experience, 9/5, Office of this Paper.

**C**HEMIST.—Wholesale firm requires progressive young Chemist in advertising department; previous experience not necessary. Full particulars and state salary (in confidence) to "Dial" (21/38), Office of this Paper.

**M**EDICAL Representative, experienced, accustomed to call upon Doctors, open for engagement. "V.", c/o Morgan, 63 Ludgate Hill, E.C.

**P**ERFUMES in bulk; an exceptional commission is offered to a gentleman calling on buyers of these goods. Enclose full particulars, in strict confidence, to "Perfumes" (5/2), Office of this Paper.

**P**ILL ROOM.—Messrs. C. J. Hewlett & Son, Ltd., have a vacancy for an Assistant in their Pill and Tablet department; previous experience essential. Apply, in writing, stating salary required, etc., to Messrs. C. J. Hewlett & Son, Ltd., 35/42 Charlotte Street, Great Eastern Street, E.C.

**R**EPRESENTATIVE for well-known Proprietary article; one used to interviewing Medical men preferred. Apply, "H. R." (5/22), Office of this Paper.

**R**EPRESENTATIVE for the Northern Counties, with good connection, required by old-established London Wholesale Druggist; salary and commission. Apply to 7/39, Office of this Paper.

**R**EPRESENTATIVE (Drugs) wanted for Manchester; connection and experience essential. Ayrton, Saunders & Co., Ltd., Wholesale Druggists, Liverpool.

**R**EPRESENTATIVES for Scotland, Lancashire, and London required by old-established Wholesale house; must have live connection and possess a thorough knowledge of Counter Specialities. "Pharmacy" (23/3), Office of this Paper.

**T**RAVELLER for the Far East, about 35; a gentleman of good address and able to furnish undeniable evidence of successful and high-class work as a Representative in the Wholesale Drug-trade, extending over some years; none others entertained; excellent opening with progressive interest for a well-qualified man. Apply, 6/74, Office of this Paper.

**T**RAVELLER wanted to sell high-class Essential Oils, Concrete Essences, Olive Oil, Oil Lemon, etc.; only those with live, recently canvassed connection need apply; liberal salary and commission to the right man. Apply, 18/28, Office of this Paper.

**Y**OUNG woman wanted; experienced in packing and putting up Druggists' Sundries. Write full particulars of previous situations to 22/6, Office of this Paper.

**Y**OUTH required in office of old-established City Wholesale and Export Druggists; must be well educated and write good hand; excellent prospect of advancement; salary to commence 10s. weekly. Address, "Drugs," c/o Street's, 30 Cornhill, E.C.



# SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

## WHAT ASSISTANTS SAY.

The following were in this morning's post (April 22, 1909) :—

"In response to my advert. In the 'C. & D.' Supplement, I may say I receive so many offers of berths that having accepted one I find it impossible to write to those who so kindly replied, and to thank them for their letters." R. D. (Crew), 22/47.

"Re advert. in last week's 'C. & D.' I shall not wait same repeating as it has brought several replies, and I have obtained a situation through replying to another advert. In your Supplement."—A. R. H. (London), 20/11.

## RETAIL.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

**R**ELIEF; part or whole day, Thursdays. "F. S. E.," 565 Lea Bridge Road, N.E.

**L**OCUM; wide experience; disengaged until June 4. Screombe Griffin, Saville Row, Bath.

**L**OCUM.—Pharmacist; disengaged; town and country experience. Price, Brynamlwg, Crowboro'.

**A**S Assistant; Mixed trade; Prescribing, Extractions, etc. "Beta," 2 Halford Road, Bradford.

**L**OCUM; qualified; 30; good experience; references. "Salol," 11 Weaste Road, Weaste, Manchester.

**P**ART-TIME; disengaged evenings; qualified; West-end reference. "A. B.," 31 Albert Road, Ilford.

**A**SSISTANT; 32; unqualified; working-class neighbourhood preferred. Weale, 3 Ida Place, Ebbw Vale.

**J**UNIOR; 20; 5 ft. 9 in.; excellent Counterman; practical Photography. "R.," 113 Railway Terrace, Rugby.

**M**ANAGER or Dispenser; qualified; good experience; also Prescriber. "Chemicus," 337 Latimer Road, W.

**P**ART-TIME; mornings or evenings; aged 24; first-class Dispensing experience. "Sajodin," 17 Craven Road, W.

**A** SUCCESSFUL Manager of large Stores seeks similar position; qualified, and abstainer. 8/6, Office of this Paper.

**E**XPERIENCED Locum; disengaged; day or week; highly recommended. "Chemist," 100 Boston Road, Hanwell, W.

**J**UNIOR; 20; tall; 4½ years' experience in good Dispensing business; whole or part time. Wilkinson, Woodville, Oakworth, Keighley.

**A**SSISTANT, Manager, Dispenser (certificate), Salesman; good any capacity. 37; abstainer. "Reliable" (7/25), Office of this Paper.

**J**UNIOR; 22; tall; good appearance; 3½ years' experience; time study. G. T. Almeroth, Egremont House, Heigham Road, East Ham, Essex.

**J**UNIOR (23) desires engagement; unqualified; Dispensing and Photography; knowledge Homoeopathy; excellent references. "W. S. S.," Bethany, Fernlea Road, Harwich.

**P**HARMACIST; Manager; good experience; Prescriber, Optics; best reference; London district preferred. "Disengaged" (8/23), Office of this Paper.

**W**HOLE or part time, before 5 daily; present berth 4½ years; Hall qualification; Prescribe, Extract, Dispense; books. Hall, 55 Lady Margaret Road, N.W.

**S**WISS Pharmacist, speaking French and German, good knowledge of English, wishes season situation. Apply, Pignet, 12 Cecile Park, Crouch End, London, N.

**P**ART-TIME.—Minor Student seeks Part-time situation; South London preferred; Dispenser or Retail; 7 years' experience. Langton, 196 Belzize Road, N.W.

**P**HARMACIST thoroughly recommends youth (19) as Porter to Chemist; Hospital, Wholesale; honest, reliable; good worker. Wardle, 76 Glenarm Road, Clapton.

**J**UNIOR or Improver; 4 years' experience. Fisher, King Street, Cambridge.

**A**SSISTANT; middle-age; disengaged. "Extractor," 14 Naden Road, Handsworth.

**M**ANAGER of branch or Locum; aged 50. Limbrick, Great Witley, near Worcester.

**L**OCUM; 29; qualified; disengaged; good all-round experience. 10/21, Office of this Paper.

**J**UNIOR; 21; worker; good references; indoor berth preferred. "North" (12/3), Office of this Paper.

**L**OCUM, unqualified, until May 30; Dispensing, Photography. Rock, "Mayfield," Atherfold Road, S.W.

**Q**UALIFIED; experienced; good Dispenser; Photography; outdoors. Apply, 10/20, Office of this Paper.

**A**SSISTANT; Locum or permanency; long Store experience; disengaged. G. Roberts, Southam, Warwickshire.

**J**UNIOR; 20; experience required; knowledge Photography; Dispensing. Clark, 6 Cherry Street, Birmingham.

**U**NQUALIFIED Assistant; 20; good Dispensing experience. H. Freedland, 23 Heywood Street, Cheetham, Manchester.

**Q**UALIFIED (25), first-class experience, Dispensing, etc., open to engagement May 17. "K.," 273 Fulham Road, S.W.

**A**SSISTANT; West-end and Store experience; outdoors; or Dispenser; disengaged. "H. G.," 6 Willow Avenue, Barnes, S.W.

**P**ART-TIME; Minor student; mornings and evenings free; thoroughly experienced. "E. S.," 27 Chelsham Road, Clapham, S.W.

**B**RANCH Manager; Minor; middle-aged; married; good experience and references. "Pharmacist," 161 Goldhawk Road, Shepherd's Bush, W.

**Q**UALIFIED; 24; first-class Dispensing and Retail experience; North preferred; one with view to succession not objected to. 10/18, Office of this Paper.

**M.P.S.** (young) requires Counter experience in high-class Retail business till end of September. Address, 10/19, Office of this Paper.

**M**ANAGER or Locum; varied experience; 36; 5 ft. 9 in.; references to date; disengaged May 3. Kilvert, 17 West High Street, Salford, Manchester.

**J**UNIOR; age 20; abstainer; disengaged; knowledge of Dispensing; Worcestershire preferred; good references. Morris, Hagley Road, Halesowen, Worcester.

**Q**UALIFIED desires situation in good Dispensing business; age 25; over 11 years' experience. "Abstainer," 15 Alperton Street, Queen's Park, Paddington, W.

**T**ACTFUL Salesman, competent Dispenser, 6 years' all-round experience, 21, tall, smart appearance, desires post in modern business. "D.," 17 Brookside Road, Uttroter.

**Q**UALIFIED (29) requires berth in good Retail, Dispensing, and Photo business, with view to succession; Midlands preferred. Apply, "Capital" (11/17), Office of this Paper.

**Q**UALIFIED Branch Manager or Senior Assistant; 30; 15 years' experience; good references; South Coast preferred; disengaged. "Rhei," 6 Montgomerie Road, Southsea.

**M**ANAGER or Locum; qualified; 32; tall; from May 5; abstainer; excellent references; first-class Dispensing, Photography, Homoeopathic, and Optical experience. "F. C. S.," c/o Mr. Bailey, 61 Old Dover Road, Blackheath, S.E.

**Q**UALIFIED.—Advertiser wants position in Retail Pharmacy; good experience in South Africa; knowledge of German and Russian; highest references. "S. C.," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

**P**HARMACIST and qualified Refractionist, M.P.S., F.S.M.C. (35), thorough knowledge of Photography, excellent Sight-tester and Spectacle Fitter, Retinoscopy, splendid experience in high-class Pharmacy, seeks Colonial appointment, or would entertain Partnership, where Optical diploma would be of service; cash ready. "Midland" (5/5), Office of this Paper.



**D**ISPENSER or Locum; good experience; 44. 9/24, Office of this Paper.

**L**OCUM; qualified; disengaged; experienced. 9/33, Office of this Paper.

**S**MART Manager; 26; good experience and references. "Veritas," 14 Merton Road, Wandsworth.

**J**UNIOR (20) desires situation in good Dispensing business. Hughes, Bank House, Prestatyn.

**L**OCUM; tall; unqualified; West-end experience. "Hydrastin," 20 Courtney Road, Highbury, N.

**Q**UALIFIED; Locum; now disengaged. "Pharmacist," 12 Gros-wolde Road, Sparkhill, Birmingham.

**Q**UALIFIED; 25; Manager; good experience in town and country. E. Siddall, High Street, Spilsby, Lincs.

**D**ISPENSER or Assistant; disengaged; 3½ years last reference. Taylor, 145 High Street, West Norwood.

**U**NQUALIFIED; permanency required; married; outdoors. Williams, 55 Duke of York Street, Wakefield.

**A**SSISTANT; 3 evenings; Retail or Doctor experience; French. "Vite," 34 Grosvenor Terrace, Camberwell.

**Q**UALIFIED; 25; first-class experience; Photography; ab-stainer. Green, 122 King's Road, Brighton.

**J**UNIOR or Improver; 19; just finished apprenticeship; passed Preliminary. "Rhei" (9/25), Office of this Paper.

**A**BSTAINER; 22; experienced Dispenser; Photography, Counter; Relief. Duckett, 2 Craigerne Road, Blackheath.

**W**ANTED, evening work by lady Dispenser; excellent testi-monials. Apply, "X" (11/37), Office of this Paper.

**L**OCUM or permanent; 10 years London, W.; fluent French; Photographics. "Optics," 40 Watergate, Grantham.

**U**NQUALIFIED, tall, 25, experienced, desires permanency. Lloyd, 115 Morley Avenue, Mapperley, Nottingham.

**J**UNIOR; 21; good Dispensing experience; excellent references; tall; London preferred. "Aqua" (9/22), Office of this Paper.

**Q**UALIFIED; 28; good all-round experience; outdoors; W. or S.W. district preferred. "H. M. B." (9/1), Office of this Paper.

**A**SSISTANT; 25; experienced Dispenser and Salesman; total abstainer; excellent testimonials. 91 High Street, Sevenoaks.

**U**NQUALIFIED; 27; Dispensing, Counter, Window-dressing, Stockkeeping, Photographic; disengaged. 54 Park Avenue, Mitcham.

**M**ANAGER, Senior Assistant, or Locum; qualified; disengaged; 29; married. "Argyrol," School of Pharmacy, Colquitt Street, Liverpool.

**A**SSISTANT; aged 26; West-end Dispensing experience; inter-view if required; London preferred. "J.," 35 Clanearty Road, Fulham, S.W.

**A**SSISTANT, unqualified, experienced, requires Part-time berth for a month; outdoors. "Nitrox," 4 Bonnington Square, Kennington Oval, S.E.

**J**UNIOR, 5½ years' all-round experience, requires situation immedi-ately; nominal salary; town or country. O. W. Harrop, 66 Avon-dale Road, Sefton Park, Liverpool.

**A**SSISTANT; unqualified; 10 years' experience; 4½ years present situation; abstainer; good references; aged 25; disengaged May 1. "Gentian," 11 Belvedere, Bath.

**U**NQUALIFIED.—Mr. Wellesley Douglas desires to recommend his late Managing Assistant; aged 30; 15 years' good all-round experience. "Butane," Shepherd's Bush, Minera, near Wrexham.

**A**SSISTANT; 23; first-class Dispensing, Counter, Photographic experience; speaking French, German, Italian; full or part time. "G. M.," 115 Leadenhall Street, E.C.

**D**ISENGAGED; 5 years last berth; experience in high-class South-Coast pharmacies; also Agricultural districts; Photography; excellent references; age 36; tall. 11/39, Office of this Paper.

**A**SSISTANT or Dispenser; 28; capable and reliable; first-class experience, London and provinces. "Alpha," Beverley Villa, Goldhawk Road, Shepherd's Bush, W.

**L**OCUM; disengaged; open for future dates. Whitehouse, 2 Gill Street, Nottingham.

**U**NQUALIFIED; 27; tall; first-class experience; sound references. "M.," 37 Church Street, Uttoxeter.

**R**EGISTERED Pharmaceutical Student; knowledge of Dispens-ing, etc. Bene, 82 Hanbury Street, E.

**D**ISENGAGED; unqualified; several years' experience. R. M. Lelean, 11 Princess Road, Leicester.

**L**OCUM; qualified; excellent references; disengaged. "Caius," 21a Castletown Road, West Kensington.

**D**ISPENSER or Locum; disengaged; excellent references; out-doors. S. Stovell, 4 Handforth Road, S.W.

**J**UNIOR (20), 5 ft. 9 in., 4 years' Dispensing experience; dis-engaged. E. Andrews, "Hawkstone," Rhyll.

**D**ISENGAGED; 34; married; unqualified; 10 years last situa-tion; Photography. Howes, Kingsholm, Gloucester.

**J**UNIOR; 21; tall; good Dispensing experience; disengaged. "G. E.," 2 Cliff Terrace, Liverton Mines, Loftus (Yorks).

**Q**UALIFIED as Manager or Senior; steady, reliable, and com-petent; age 35. "Black," 51b Morat Street, Brixton.

**P**ART-TIME; qualified; disengaged three mornings and afternoons and three evenings; excellent testimonials. Nedgus, 3 Barrow Road, Streatham Common.

**A**SSISTANT; married, no family; Store or General Retail; 9 years present position; unqualified; disengaged beginning May. "T.," 66 Burgoyne Road, Harringay.

**L**IVERPOOL.—Occasional help; qualified Chemist takes charge of good-class businesses only, by the day or longer; excep-tional references. 7/20, Office of this Paper.

**P**ART-TIME; unqualified; ago 26; good Dispensing experience; Photography; London district preferred; outdoors. "A. E. B.," c/o Hampshire House Club, Hammersmith, W.

**M**ANAGER, qualified, 35, married, requires permanency, with prospect of part or whole interest in business; 20 years' experi-ence; highest references. 13/23, Office of this Paper.

**L**ONDON.—Part-time; mornings and afternoons; live out; un-qualified; 25; tall, good appearance; good references; Photo-graphy. Please state salary, 13/18, Office of this Paper.

**M**ANAGER; qualified; 52; active; South Coast or near London; good-class trade and Photo; outdoors preferred. Please send full particulars, "Qualified" (7/34), Office of this Paper.

**S**EASON or Otherwise.—Unqualified; 30; 5 ft. 8 in.; experienced Dispenser, Photographer, Counterman; disengaged; outdoors; excellent references. Stansfield, 24 Laurel Grove, Southport.

**A**SSISTANT; 24; gentlemanly, tall; Dispensing and good Varied experience; excellent references; seeking permanency; out-doors preferred. Apply, "Statim," 13 Trinity Street, Boston.

**D**ISENGAGED April 30th; Assistant; unqualified; age 28; good all-round experience; in or out doors; willing and obliging. Apply, N. S. Davidson, The Laurels, Ruskington, near Sleaford.

**A**SSISTANT; 5 ft. 10 in.; aged 28; West-end and suburban ex-perience; well up Photography; country, etc.; outdoors; un-qualified; good references. "Statim," 68 Dagnan Road, Balham, S.W.

**D**ISENGAGED; unqualified Assistant; middle-aged; abstainer; outdoors; good business tact and push; well up in Prescrib-ing; 3 years last reference as Branch Manager. "Prompt," 185 High Street, Uxbridge, W.

**I**TALIAN Chemist (30), good experience, speaking perfectly French, at present director in one of the principal Pharmacies in Turin, wishes a place in London; 3 months as voluntary; serious references. 13/34, Office of this Paper.

**H**ANDYMAN (25), unqualified, as Assistant or Dispenser; could work country Wholesale, prepare and control Proprietaries or Department, or similar position; good stockkeeper; 9 years' all-round experience. 11/32 Office of this Paper.

**A**DVERTISER (30), qualified, with moderate capital, would like to undertake a Managership with a view to an early succe-sion; or a Partnership would be considered; London or Coast town preferred; extensive town and provincial experience. Apply, "A. B. C." (11/5), Office of this Paper.



## SITUATIONS WANTED—cont.

### WHOLESALE.

**AS** ASSISTANT Buyer in Merchant's office; good experience. "R. F." (13/37), Office of this Paper.

**WAREHOUSEMAN**, 7 years Manchester houses, seeks employment. "Brono," 2 Roy Street, Salford.

**AS** Assistant in Wholesale; 11 years' Retail, provincial, and Wholesale experience. 9/27, Office of this Paper.

**EXPERIENCED** Traveller desires commission; London; good record. "P," 10 Lunham Road, Upper Norwood, S.E.

**ADVERTISER** (27) desires re-engagement as Clerk; good experience; excellent references. 9/30, Office of this Paper.

**TRAVELLER**, sound connection, wants Side-line and part expenses; South Wales, West England. Fernlea, Pontnewydd, Mon.

**SITUATION** required by smart man (24) where 9 years' experience with Chemical Dealers would be useful. 13/31, Office of this Paper.

**WANTED**, a situation as Steam Laboratory Hand or Porter; references if required. Mr. Best, 3 Warner Street, New Kent Road, S.E.

**ADVERTISER** (29), all-round experience, used to taking charge, seeks situation; moderate wages. "Rhei" (10/12), Office of this Paper.

**JUNIOR** (23) seeks situation, London, W., in Wholesale or Retail Drug-stores; well up in Drugs. Apply, "Vini" (5/3), Office of this Paper.

**SURGICAL** Instruments and Appliances.—Assistant (25), 8 years' experience, good references, requires situation. Address, 11/26, Office of this Paper.

**CLERK**, expert accountant, shorthand typist, experienced in trade, desires situation; good traveller; moderate salary. "F," 156 Capel Road, Forest Gate, E.

**TRAVELLER**; Drugs, Sundries, Pharmaceutical Specialities, Instruments; connection, South, West, Lancs, Yorks; expenses and commission. 9/9, Office of this Paper.

**CHEMIST**, having lately disposed of Retail business, desires engagement in London Wholesale house; any capacity; not afraid of work. "B," 60 Hindes Road, Harrow.

**YOUNG** gentleman (22) requires situation; indoors; 6 years' good commercial experience Chemical trade; bookkeeping, and general office routine; also travelled. 13/6, Office of this Paper.

**EXPORT** Warehouseman (Sundries, Photographic, etc.), aged 28, abstainer, seeks appointment; London house; excellent references; long service. Address inquiries, "Shipping" (10/26), Office of this Paper.

**QUALIFIED** Pharmacist is open to undertake temporary or permanent work as special Representative or Supervisor; good experience and reputation as interviewer and salesman. 22/74, Office of this Paper.

**HYPODERMIC INJECTIONS**.—Chemist, thoroughly competent in this respect, with Continental experience, desires communicate with good Wholesale house who wishes to increase or introduce this kind of business. Roberts, 13 Highbury Grove, N.

**TRAVELLER**, good Midland connection, wishes to Represent first-class house; Drugs, Sundries, Surgical Instruments; would undertake responsible position in office administration and organising. "Patient," 34 Lansdowne Gardens, Clapham, S.W.

**MANUFACTURING** Chemist, with extensive London experience of General Manufacturing and Specialities, is open to engagement in Wholesale house; Analyst; commercial experience of every department; investment if desired. 9/28, Office of this Paper.

**YOUTH** seeks situation in Wholesale Druggist's or Chemical Apparatus Manufacturers, and where further experience of trade may be obtained; 2½ years' Retail experience and Dispensing; in or near London required; moderate salary. Please reply, "B," 11 Langdon Road, Bromley, Kent.

## MANUFACTURE OF YEAST AND VINEGAR.

Information wanted by a Colonial firm from makers of plants for the production of Compressed Yeast and Vinegar on a modern scale.

Also practical man experienced in the manufacture of these lines.

Catalogues, prices, and all particulars to 5/25, Office of this paper.

## MISCELLANEOUS.

**MCADAM & TUCKNISS**, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone 81 Lee Green.

**SHARES FOR SALE** (free of commission, subject).—40 Allen & Hanburys "B" Pref., 23s. 10½d.; 10 Bais Bros. & Stevenson Pref., 20s.; 200 Idris "A" Ordinary, 3s. 1½d.; 200 Idris "A" Pref., 7s. 1½d.; £500 Debentures, bid wanted; 50 Ilford Pref., 16s.; 50 Pears, 32s. 6d.; 7 Dental, £4 10s. paid, £5 1s. 3d. x.d.; £25 fully paid, £5 10s. x.d.

**WANTED** (subject).—100 Camwal Pref., 6s. 7½d.; 5 Debentures, £33 10s. each.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

**CHEMISTS' SHOP-FITTINGS (SECOND-HAND)**.—Ranges mahogany drawers, with bevelled-edge glass labels and on-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-docks, tooth-brush cases, complete shop-rounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. **MATTHEWS, CHEMISTS' FITTER**, 14 and 16 MANCHESTER STREET, LIVERPOOL.

**SECOND-HAND SHOP-FITTINGS**.—2 modern window-enclosures, complete with top-lights, mirrors, plate-glass shelves, £10, cost more than double; 16 ft. 6 in. mahogany glass counter, very handsome, £12 10s.; 6-ft. mahogany plate-glass dispensing-screen and counter, mirror centre, £9 5s.; mahogany prescription desk and case, 35s.; 8-ft. solid mahogany plate-glass serving-counter, £6; 6-ft. plate-glass counter-case, £4; quantity of other goods must be sold at any price. Call at **PHILIP JOSEPHS & SONS, LTD.**, 93 Old Street, London, E.C.

**WE HAVE WHAT YOU REQUIRE**, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. **RUDDUCK & CO.**, 262 OLD STREET, E.C.

**DENTAL MECHANIC**.—T. Barton, 194 Mansfield Road, Nottingham. Telephone 3898. Best workmanship in Vulcanite, Gold, D.A., etc.; Crowns, Bridges, and Inlays a speciality; prompt despatch my leading feature; repairs per return; every assistance and advice given to clients.

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**EVANS, GADD & CO., LTD.**, Bristol and Exeter.

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**BARGAINS IN SECONDHAND FITTINGS**.—200 secondhand labelled bottles and drug jars, with some stock, £5; 12-ft. range of drug-drawers, gold labelled and glass knobs, £5; 12-ft. range of mahogany with glass labels and knobs, £8 5s.; one set of three plate-glass shelves, 6 ft. long, 15, 12, and 9 in. wide, bars and brackets, 65s.; one set of ditto, 5 ft. long, 55s.; one set of ditto, 4 ft. long, 42s.; one set, 3 ft. long, 30s.; 6-ft. mirror-centre dispensing-screen, 90s.; 12 2-lb. dome-top pink jars, gold labelled, 28s.; 120 recess label rounds, £8 10s. **R. Tomlinson & Sons**, Bond Street, Constitution Hill, Birmingham.

**ANTI-RHEUMATIC RINGS (Registered)**.—Small Stock of Rings, Literature, Show-cards, and Window-stands for Sale by original Manufacturer; best wearing and most effectual Ring on the market; contains new registered Galvanic lining and name registered; a chance seldom occurring and success assured for a smart advertising purchaser; principals only apply. Correspondence invited. "Emancipation" Company, 219 Well Street, Birmingham.

**TO** Apprentices, Juniors, etc.—Mr. Charles Harker's simple and rapid system of postal tuition for the Pharmaceutical Preliminary is the least expensive and most thorough; numerous successes in three months; Latin, French, and Mathematics mastered with greatest facility; special attention given to those of neglected education; 85 per cent. recent successes. Write at once, Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

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**J. R. B. ALLISON, PHARMACIST AND BUSINESS SPECIALIST, RETFORD.**



## A Typical Tropical Day.

By a Chemist's Assistant.

**M**AYBE the young chemist has been dreaming of his Minor torture when mosquito-net and native barber awake him to the fact that he is many thousand miles distant from delectable Bloomsbury Square.

The mosquito-net is untucked and raised, the barber deftly gets to work as the sleepy pharmacist reclines, half-dozing, on his pillow. Meanwhile a rattle of crockery is the signal of the arrival of the "boy" (native servant) with "chota hazri" (little breakfast). Shaving being completed, "the doctor sahib" (the native appellation for doctors and chemists alike) leisurely sips his coffee.

Half an hour later he mounts his cycle and sets out from the bungalow in the cantonment area for the pharmacy, which he reaches about 7.30 A.M. The "burra-sahib" (proprietor or manager) is already at his desk tackling the day's mail, the "peons" (porters) are busily dusting the bottles, the dispensers are preparing the stock solutions (mag. sulph., sod. bic., pot. chlor., etc.), so the young chemist retires to his stool at the dispensing-desk.

The dispensers are probably a strange assortment. Here is a Eurasian, alert and reliable; here a Madrassi, obsequious and sly; here a Goanese, languid and self-confident; and in addition there are a heterogeneous number of young educated natives collectively classed as "babooos."

Prescriptions, that had come in late over-night, having been copied, all books having been entered up, the making of solutions, ointments, and various other preparations having been superintended, the chemist is ready for the prescriptions of the day, which shortly proceed steadily to flow in. At 8.30 A.M. one of the doctors of the firm (there may be three or four) arrives, and sits in his consulting-room to receive patients. The doctors attend at definite hours, and also pay visits in the usual way. There is a nominal fee of about five rupees for Europeans who come for consultation, but advice is gratis to natives, though they pay pretty good prices for their medicine, which they are expected to get made up on the premises.

The chemist soon has all he can do to write labels and check the work of his staff of dispensers, leaving the actual copying of 'scripts till the lull of work in the afternoon. An orderly dashes up on a fiery pony with an order from one of the highest Government officials, while, at the same time, Applesawmy (a Madrassi cook) or Abdul Mahomed (a Mussulman trader) tenders his prescription at the front counter for dispensing. Heads of big trading firms, Scotch engineers from steamers and mills, clerks from banks and offices, assistants from the European emporiums, soldiers from the barracks, Eurasians and "babooos" from Government offices, stalwart Sikhs from the police barracks, pig-tailed Chinese merchants, cringing native servants, females of the Japanese *demi-monde*—varied, indeed, is the doctor's *clientèle*! Perhaps proceedings are enlivened by the arrival of a comatose Hindoo in the last stages of cholera, or a Coringhi coolie is carried in with evident signs of plague—such patients are promptly forwarded to the isolation hospitals.

By 10 o'clock the front counter is busy with retail customers. Ladies are being driven on their shopping-rounds in carriage or "gharry" (cab), and come in for various toilet-requisites, tablets, perfumes, and medicines. A third Britisher possibly is attending to this department, and in the intervals to the post orders which have come in from up-country. Native assistants of different caste attend to the many-tongued native crowd that make a babel of one end of the counter.

During the morning the British chemists retire in rotation for the first meal of the day, a substantial breakfast equivalent to the mid-day dinner in England. Generally, too, he is allowed a short siesta before returning to the stifling heat of the pharmacy, the temperature of which can only be comfortably borne by the use of punkahs.

At noontime, when the thermometer shows 85° to 95° F., our perspiring chemist sits sipping iced drinks and sniffing liq. ammon. fort. in order to keep awake and cope with the pile of prescriptions that await copying into the big ledger. "Tiffin" arrives about 2 or 3 P.M.; this is just a very light lunch, probably a little salad and fruit. Rein-

vigorated, he returns to polish off the arrears of the morning, to attend to the prescriptions that arrive from the various patients visited by the doctors on their rounds, and to prepare for the evening rush of work, certain of the doctors attending the dispensary again from 5 to 6 P.M.

Generally speaking, the young chemist gets away at 5 or 6 o'clock every other day. He usually returns to his bungalow for a revivifying cup of tea, after which he throws off the white clothes he has worn all day, takes a shower bath, and dresses in a black morning suit and straw hat like any respectable young Britisher at home. He is now ready to take a cycle spin to the rendezvous of European fashion in the park or to pay a passing call. Quite often, however, he is too tired to do anything beyond lying back in a "long-sleeve" chair, though cases are known where men have donned football gear and rushed into that un-tropical game; more often, however, a game of tennis is quite energetic enough.

Meanwhile, the assistant on duty is slaving away superintending everything, and woe betide him if he fails to notice all that is going on! Though he may not actually be doing things himself, he must direct down to the veriest detail and check everything with the utmost vigilance. As the rush of evening work dies down the weary pharmacist longs for the termination of his day's routine. At seven or half-past seven he cycles, or hires a "gharry," and proceeds to his bungalow, inwardly wondering why he was such a fool as to come East. After a bath he dresses for dinner, and after dinner, lying back in his chair on the verandah smoking a cheroot, he reverts to his early-morning verdict, that a chemist's life in the East is not so bad after all.

## Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Sunday, April 25.

*National Union of Assistant Pharmacists, London Branch*, 37 Ladbroke Road, Notting Hill, W., at 3 P.M. Discussion on the result of the Birmingham meeting open to all qualified assistants and managers.

Tuesday, April 27.

*Hull Chemists' Association*, Grosvenor Hotel, at 8 P.M. Ordinary meeting.

Wednesday, April 28.

*Public Dispensers' Association*, St. Bride Institute, Bride Lane, London, E.C., at 8 P.M. Mr. C. T. Rutter on "The Life of Dalton."

Thursday, April 29.

*Cheltenham Chemists' Association*, New Inn Hotel, Gloucester, at 9 P.M. Mr. J. A. Thomas on "The Poisons and Pharmacy Act."

*Chemists' Assistants' Association*, 73 Newman Street, London, W., at 9 P.M. Annual general meeting.

THE annual dinner of the Pharmaceutical Society of Great Britain will be held on May 18 at the Holborn Restaurant, London, W. Tickets (one guinea each) from Mr. R. Bremridge, Secretary, 16 Bloomsbury Square, W.C.

THE annual smoking concert of the Public Dispensers' Association will take place at Stone's Restaurant, Broadway, Ludgate Circus, London, E.C., on May 5. Tickets (1s. each) from the Hon. Secretary, Mr. S. H. Leadbeater, 21 North Cray Road, Bexley, Kent.

THE sixth annual dinner of the North Kent Chemists' Association will be held at the Clarendon Royal Hotel, Gravesend, on May 5. Mr. J. R. Young (President of the Pharmaceutical Society) and Mr. W. S. Glyn-Jones, barrister-at-law, have promised to attend. Tickets (5s. each) from Mr. R. Feaver Clarke, 21 High Street, Gravesend.

**BENEFITS OF ADVERTISEMENT.**—At the annual meeting of Schweppes, Ltd., on April 20, Mr. C. D. Kemp-Welch (chairman) reported an increase in the net profit last year of some 1,500%, partly due to the expenditure of a larger sum on ordinary advertising. The sales were the largest on record, and the chairman said the extra advertising was necessary owing to the invasion of England by the makers of foreign mineral waters. Sir William Treloar said he agreed with the chairman about advertising. Someone had said (added Sir William) that a firm that had a good thing to sell and did not advertise it was like a man winking in the dark at a pretty girl.



## American Notes.

(From the "C. & D." Correspondent.)

**SUNDAY DUTY.**—There are four chemists's shops in Herington, Kansas, and the owners have decided that only one of them will keep his place open alternately on Sundays.

**THE PATENT-MEDICINE INDUSTRY** has troubles of its own. There are now pending in different State Legislatures Bills providing that all proprietary articles must bear their full formulæ on the labels. It is quite likely, as usual, that the patent-medicine barons will succeed in having these measures decently and respectfully interred without the necessity of any funeral sermons.

**THE AMERICAN PHARMACEUTICAL ASSOCIATION** meets this year in Los Angeles, California, so a number of members from the Atlantic seaboard will not be able to attend. There is a proposal that local branches in the East should hold a joint meeting in connection with the annual convention in Atlantic City of the American Medical Association, which usually has an attendance of about 15,000.

**THE BROOKLYN COLLEGE OF PHARMACY BUILDINGS**, erected by the Kings County Pharmaceutical Society at a cost of \$45,000, are now free from debt. The mortgage representing the remaining bit of indebtedness was burned under spectacular circumstances at an enthusiastic meeting of the Society two or three weeks ago. Dr. William Muir, the chief figure in Brooklyn pharmacy, occupied the centre of the stage.

**A.P.H.A. EXTENDING.**—Two local branches of the American Pharmaceutical Association have recently been organised, one in Denver, Colorado, and the other in Pittsburg, Pennsylvania. This makes about ten local branches altogether, and three or four additional ones are contemplated in different cities. The development of the local branches has largely increased the membership of the A.P.H.A. during the last two or three years.

**SUNDAY TRADING.**—In California a Bill has been introduced into the Legislature prohibiting retail merchants from selling goods on Sunday. An exception is made in the case of pharmacists, who will be permitted to sell medicine and sick-room supplies between nine and eleven o'clock in the morning and half-past five and seven in the evening. Strangely enough, while chemists are always complaining about having to work on Sundays, they are opposing this particular measure—"just why" is not obvious.

**SOMETIMES DISHONEST EXAMINERS**, for a consideration, supply students with a set of examination-questions in advance. In New York the other day it was discovered that thirty-five candidates had been helped in this way at the uniform price of \$125 apiece! Out in Chicago, on the other hand, it was suddenly found that about twenty chemists and assistants were practising pharmacy on the basis of licences which they had "rented." In both cases the authorities are after the culprits hot-foot.

**MEDICINE PEDLARS.**—There are now pending before six or eight State Legislatures a number of Bills which would impose a monthly tax of \$75 or \$100 upon itinerant vendors of medicines. Druggists are standing behind these Bills for the reason that the travelling vendors are competitors of theirs, and they desire to have their operations curbed. Last year the N.A.R.D. succeeded in getting a number of measures of this sort passed into law, and the City Council of Chicago has recently passed an Ordinance of the same character.

**MEDICATED WINE.**—Many chemists have been prosecuted recently for manufacturing and selling products like beef-and-iron wine, "rock and rye," etc. The contention of the Federal Department of Internal Revenue is that pharmacists who make these things are rectifiers in effect, and must possess rectifiers' licences. To this statement an exception is made in the case of the particular product of beef-and-iron wine, the recipe for which is given in the "National Formulary." In the meantime, however, druggists all over the country have been made to pay fines between \$75 and \$300.

**THE WILL** of Mr. G. J. Seabury, who died on February 13, provides for a trust estate which is to continue for fifteen years, when the property is to be divided among his

daughters. The bequests include \$5,000 to Mrs. Amelia Hynard, small sums to several old employees, and an annual income for his two daughters. Dr. H. C. Lovis, Mr. Seabury's nephew, who is now president of Seabury & Johnson, receives 250 shares in the company, and Mr. L. L. Benjamin, the secretary, twenty-five shares. The last two are executors of the will.

**THE HISTORIC PHARMACY** of Theodore Metcalf & Co. in Tremont Street, Boston, was founded in the early part of the last century, and during the 'fifties was frequented by such great Americans as Oliver Wendell Holmes and William Warren. When Charles Dickens went to the United States he spent one or two evenings among his American friends in the Metcalf Pharmacy, which has recently been sold to a new corporation, the head of which is Mr. Michael F. Lyons, who has been in the establishment twenty-five years, having been apprenticed to Mr. Metcalf.

**TARIFF BILL.**—Mr. Albert Plaut, of Lehn & Fink, discussing the Payne Tariff Bill with the "American Druggist," said:

I do not deem it advisable for the drug-trade in general to oppose the increase of the duty on opium, the tax on essential oils, or the tax on spices for the reason that the Government needs additional revenue, and if Congress does not obtain it in this way it may impose a stamp-tax on proprietary medicines and perfumery, all of which would come out of the pockets of the retail druggist. Even now it seems possible that the Senate may propose to reimpose the stamp-tax on proprietary medicines, perfumeries, etc. If this is proposed the drug-trade, both wholesale and retail, should oppose the scheme to their utmost.

## Poisons Schedule on a Card.

We publish a card which shows on the front page the Schedule of Poisons of the Poisons and Pharmacy Act, 1908, now in force. On the back is a supplementary list of poisons. The card is corded to hang up, and will be found most convenient and useful in every pharmacy or wholesale house. Post free for six penny stamps on application to the Book Department, 42 Cannon Street, London, E.C. May also be obtained at the published price (4d. per copy) with goods from the following wholesale houses:

Ayrton, Saunders & Co., Ltd., Liverpool.  
Barclay & Sons, Ltd., London.  
E. H. Butler & Son, Leicester.  
W. Edwards & Son, London.  
Evans Sons Lescher & Webb, Ltd., London and Liverpool.  
Glasgow Apothecaries' Co., Ltd., Glasgow.  
Goodall, Backhouse & Co., Leeds.  
Harkness, Beaumont & Co., Edinburgh.  
W. & R. Hatrick & Co., Glasgow.  
Hirst, Brooke & Hirst, Ltd., Leeds.  
R. Hovenden & Sons, Ltd., Berners Street, W., and City Road, E.C.  
J. Ismay & Sons, Newcastle-on-Tyne.  
T. H. Lloyd & Co., Leicester.  
S. Maw, Son & Sons, London.  
May, Roberts & Co., Clerkenwell Road, E.C.  
F. Newbery & Sons, Ltd., London.  
W. Paterson & Sons, Aberdeen.  
Raines & Co., York.  
Raines, Clark & Co., Ltd., Edinburgh.  
Sangers, Euston Road, London, N.W.  
John Thompson, Ltd., Liverpool.  
Jas. Woolley, Sons & Co., Ltd., Manchester.

The card contains the requisite data for those poisons which are in Part 1 or Part 2, according to the percentage contained in the admixture or preparation. It is our copyright publication.

From the latest edition of the card we have struck out the following entries, there being doubt as to which part they are in: Brompton Hospital mixture, cantharides hair-washes, mist. acid. hydrocyanic. co., mist. bismuthi co., tr. chloroformi co., and tr. jaborandi. The following have been added:

Acid. prussic. (1). [Preparations or admixtures containing less than 0.1 per cent. are in Part 2, but what "prussic acid" means is not defined; if real acid, mist. ac. hydrocyan. co., mist. bism. co., and tr. chlorof. et morph. co. are in Part 2; if B.P. acid, in Part 1.]  
Succus conii (2).  
Succus hyoscyami (2).  
Tr. opii (2).

Those who have the card should cut this out and affix it to the supplementary list.



## German News.

(From the "C. & D." Correspondent.)

**SALE OF TUBERCULIN.**—A good example of the protection accorded to German preparations is afforded by the recent ministerial decree respecting the sale of Professor Calmette's tuberculin preparations. This states that these products are prepared from tuberculin-old, according to Koch's method, without material changes in the process; consequently they may only be sold in German pharmacies upon complying with the requirements made regarding tuberculin Koch—i.e., must be tested by the Government Control Board at the Royal Institute for Experimental Therapeutics in Frankfurt-on-Main (Professor P. Ehrlich).

**PHYSIOLOGICAL TESTING OF DIGITALIS.**—An interesting question has been raised by Dr. Focke, of Dusseldorf, who advocates the establishment of a central institute on the lines of the Control Board for examining serums in Germany, to test digitalis powder, in order to ensure the prescribing of a powder of uniform activity and strength. The powder after testing should be sold only in sealed bottles bearing a control number, on the same lines as adopted in the treatment of serums. He assumes that 4,000 kilos. is used annually in Germany, and that 120 to 180 analyses would suffice, and the work, being united in one central establishment, would guarantee a greater degree of accuracy than when performed singly by the various manufacturers.

**GERMAN SPIRIT.**—The Berlin correspondent of "The Standard," in an article on the new taxation in Germany, states that the spirit-taxes have for some years been frankly shaped in the interests of so-called agricultural distilleries. The Agrarians have demanded, and the Government have willingly conceded, preferential treatment to such establishments as against distilleries operated upon a purely commercial basis. The annual production of spirit in Germany now averages about 85,000,000 gals., of which about 66,500,000 gals. is potato-spirit, the bulk of which is produced in the six Provinces of Prussia (Brandenburg, Pomerania, West Prussia, East Prussia, Posen, and Silesia). The number of these agricultural distilleries, according to a recent publication of the Government, is 7,965, but in addition there is also an incredibly large number of small distilleries engaged in making fruit-brandies. The statistics show no fewer than 57,500 distilleries not producing more than 220 gals. a year, nearly all of which make fruit-brandy. The "Standard" correspondent gives a brief description of the spirit-tax system, showing how the Agrarians have succeeded in shaping legislation in their own favour.

**COMPANY DIVIDENDS.**—The reports for 1908 of several German chemical works have now been published, and it is interesting to note that those which are chiefly concerned with the manufacture of pharmaceutical preparations and galenicals have had no cause of complaint. On the other hand, purely chemical works have felt the effects of the depression in trade. The following are the figures given:

	Profit 1908	Profit 1907	Dividend paid	
			1903	1907
Elberfelder Farbenfabriken	£ 566,321	£ 630,120	24	36
Badische Anilin- und Sodafabrik	672,916	617,879	22	30
Chemische Fabrik auf Aktien vorm. Schering	£ 50,394	£ 83,594	9	17
Chemische Fabrik Helsenberg	27,494	25,829	8	8
Gehe & Co.	—	—	14	14
Heyden Aktiengesellschaft	—	—	10	10

The Farbenfabriken of Elberfeld Co. state that the decrease in the dividend was a result of transactions carried out last year with the distinct object of causing the dividends to decrease in future, "as these had reached such a figure as unavoidably to excite the greed of the workmen, etc." This was effected by the issue of new shares which receive this year interest at the rate of 12 per cent. As 24 per cent. is paid out to the original holders and 12 per cent. on the new shares, this means that practically the same dividend as before is being paid out. The firm has reserved 30,000% for improvements in the welfare of the workmen and 10,000% for general welfare purposes.

## The Apothecaries' Assistant Examination.

A LADY CANDIDATE who passed at the July examination of the Society of Apothecaries, London, sends us an account of what took place.

Dispensing was the first subject, for which we were allowed three-quarters of an hour. I had camphor pills and a mixture to make. The pills were:

Saponis	...	...	...	gr. vj.
Ol. caryoph.	...	...	...	℥v.
Camphor.	...	...	...	ʒss.

Ft. pil. xij. ij. omni nocte.

The mixture was—

Strychninæ	...	...	...	gr. j.
Tr. ferri perchlor.	...	...	...	ʒij.
Acid. hydrocyan. dil.	...	...	...	ʒj.
Syrupi	...	...	...	ʒiv.
Quin. sulph.	...	...	...	ʒss.
Aquam ad	...	...	...	ʒvj.

ʒss. t.d.s.

I dissolved the quinine sulphate in the tr. ferri perchlor., and said that the strychnine was an overdose and would not dissolve. The examiner asked me if the strychnine could be dispensed in another way, and I said there was the liquor strychninæ hydrochlor. He also asked me how I would make a cod-liver oil emulsion, the dose and preparations of chloral hydrate, and what the strength of the syrup was. I said 1 fl. dr. contained 10 grains of chloral hydrate. I was then asked what ʒss. contained. I was also asked what chloral hydrate was incompatible with, and what would be formed, and what would happen to the chloroform. As I could not remember the sp. gr. I said it would sink to the bottom. The examiner asked me the percentage of opium in pulv. ipecac. co. and how much opium 15 grains of powder would contain, also the dose of powdered jalap.

In materia medica I was asked to recognise carbolic acid, the dose, why it was pink, and the preparations; also the dose of liquid carbolic acid; opium, and some of the preparations and strengths; sublimed sulphur, the dose, and the difference between sublimed sulphur and precipitated sulphur; and to recognise ipecacuanha-root and kino.

I was given two or three prescriptions to read. One mixture had "Hyd. chlor. gr. vj." The examiner asked me if it was the perchloride of mercury. I said, "No, it would be an overdose." He asked me the dose, and I said  $\frac{1}{2}$  to  $\frac{1}{4}$  grain.

In chemistry I was asked how hydrogen, oxygen, chlorine, carbon dioxide, chloroform, and iodoform were made, and also to write the equations for the preparation of chlorine and carbon dioxide. How could iodine be prepared from potassium iodide? The difference between a citrate and a tartrate, and also the tests, and what is the mirror formed in testing for tartrate? I was asked about hard and soft water. How hard water could be made soft, and vice-versa. The chief impurities in water and what sort of water we had in Birmingham. I said it was the Welsh water and it was rather hard.

M. E. P. (47/3.)

## Where to Study.

The following educational institutions are advertising in this issue:

- Muter's (South London) School of Pharmacy, 325 Kennington Road, London, S.E.
- Westminster College of Pharmacy, 402 Clapham Road, London, S.W.
- London College of Pharmacy, 323 Clapham Road, London, S.W.
- South of England College of Pharmacy, 186 Clapham Road, London, S.W.
- Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.
- Manchester College of Pharmacy, 225A/227A Oxford Road, Manchester.
- Leeds College of Pharmacy, Clarendon Road, Leeds.
- North of England School of Pharmacy, 55 Northumberland Street, Newcastle-on-Tyne.
- Birmingham College of Pharmacy, 45 Newhall Street, Birmingham.
- Glasgow School of Pharmacy, 180 West Regent Street, Glasgow.

**BATH AND WEST OF ENGLAND COLLEGE OF PHARMACY.**—At the competitive examination held recently at this College, the silver medal was awarded to Mr. John Hughes, who also obtained the "Remington's Pharmacy" presented by Messrs. Burroughs Wellcome & Co. for the highest aggregate of marks in pharmacy.



# EXCHANGE COLUMN

## FOR DISPOSAL.

### APPARATUS.

HAND rotary pill-machine, with 2 pairs of extra gunmetal rollers in box, unused; cost £21; price £6. HALFORD, Chemist, Hockley, Birmingham.

### BOOKS AND PERIODICALS.

CASSELL'S "Family Physician" (5 volumes); cost 37s. 6d.; bargain, 10s. "CHEMIST," 31a Oakmead Road, Balham, S.W.

### DRUGS AND CHEMICALS.

WHAT offers?—160 (or less) 1-oz. ethyl bromide (Merc). ROBERTS, 56 Woodcock Street, Hull.

### FORMULÆ.

MONEY MAKERS.—Brooks's special recipes are easily made, profitable, and bring trade. "Vicoma" (hair-life), concentrated pomade, positively forces the growth; contains pilocarpin. "Maltussine" (cough-cure); rapid action; pleasant taste; very remunerative; nice appearance. "Cherry Foam," saponaceous liquid dentifrice; lovely odour; gives lasting sweetness to breath. "Floral Cream," inseparable; toilet luxury; clears the skin and preserves it, non-sticky. "Vir-ung," soothing, healing, curative salve; green; no poisons; positively cures eczema, sores, etc. Samples can be had for 3d. to cover postage. Recipes 2s. 6d. each, with instructions; 5 for 10s., post free. TOM BROOKS, Chemist, Hornsey, N.

### OPTICAL AND PHOTOGRAPHIC.

BUTCHER'S ½-plate folding Cameo, No. 5, slides for 12 plates and telescopic stand, 35s., cheap; optical lantern, with incandescent fittings, 25s.; T.P. ½-plate Imperial outfit, 3 DD slides, 50s. WATSON, 2 Boscombe Road, Folkestone.

### PROPRIETARY ARTICLES.

WHAT offers? 3 doz. pints, 3 doz. quarts Hale's wine c. quinine. WILSON, Egremont.

CASH offers wanted.—1 gross Nurserine, 4½d.; 1 doz. 1s. Armour's fluid beef; 6 doz. 7½d. Belton's Busy Bees; 1 doz. 1s. ditto; 4 doz. 7½d. Bowden's Indian balsam; 1 doz. 1s. 1½d. ditto; 4 doz. 7½d. Keene's corn-cure; 2 doz. 1s. 1½d. Vigirel's; 2 doz. 1s. 1½d. Caskeens. DAYKIN, Dalton-in-Furness.

### SHARES.

SHARES for Sale. See page 182.

### SHOP FITTINGS.

TWO carboys, about 10 gals., cut stoppers, good shape, mahogany roller-stands, iron rails 12 ft. each, and supports complete. Offer, BALCHIN, 109 High Road, Kilburn, N.W.

### MISCELLANEOUS.

NO. 1 compact syphon-filling machine, old volcanic, and 2 fillers; cheap. "CHEMIST," West Hampstead.

BARGAINS.—Corn-cure, moving model, 12s. 9d.; also moving model suitable for any preparation, 15s. Particulars from REED, Chemist, Ilfracombe.

BRETT'S hair-brush stand; Brownie camera; 12 Carlsbad water; 12 14-lb. Tidman's sea salt; 12 Southall's sanitary towels; 4 gilt glass specie-jars. GREEN & Co., Wimbore.

SET of 6 tooth forceps, elevator, and gum lancet, in leather roll, good condition, best maker, 15s. 6d.; morocco pocket-case, containing 2 double knives, scissors, artery and dressing forceps, probes, etc., first-rate condition, suit medical student, 17s. JAMES, 25 Fleming Road, Kennington, London, S.E.

## WANTED.

TWO swan-neck carboys; about 4 gals. Apply, "CHEMIST," 19 Belvedere, Bath.

"DIRECTORY of Chemists" for 1909. State condition and lowest price, 7/36, Office of this Paper.

RELIABLE formulæ; veterinary or trade. State price with labels, "Charta" (11/82), Office of this Paper.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

A GOOD proprietary; local reputation; ointment or otherwise; cash ready; labels. Particulars in first letter, "Truro" (11/28), Office of this Paper.

SECOND-HAND double dispensing-counter, about 4 ft. by 4 ft.; also second-hand upright personal weighing-machine, without loose weights. E. PARKER, Chemist, Scarborough.

SECOND-HAND dental chair, engine, lathe, and surgery and work-room sundries; also odd teeth. Write, stating full particulars and lowest price, to "W. E.," 30 Finsbury Pavement, E.C.

### ADDRESSES WANTED.

ADDRESS Captain Bryce Wilson, late 5th Lancers, York. WOOD, Pharmacist, York.

## Pharmaceutical Council Election

### TO THE MEMBERS OF THE PHARMACEUTICAL SOCIETY

LADIES & GENTLEMEN,

Having been nominated as a candidate for the forthcoming Council Election, I have yielded to the pressure which has been brought to bear on me by prominent pharmacists throughout the country who have offered practical support, and have agreed to stand as a candidate for the vacancy on the Council.

### POISONS AND PHARMACY ACT.

As a practical every-day pharmacist, with my living to make behind the counter, I am very keenly interested in pharmaceutical reform, and especially in the new Poisons and Pharmacy Act. The whole question, which is of vital importance to us as business men, depends on the administration of the Act by the Council of the Society. This Act does not necessarily bring in its train very many special advantages to individual Pharmacists, but I firmly believe that a great deal can be extracted out of its provisions by the prompt action of the Council of the Society in working it to its utmost limits so as to secure the maximum advantage for those who, as private Pharmacists, practise the calling of pharmacy under present-day conditions.

Certainly no time should be lost in taking the necessary steps to secure the utmost benefits therefrom in the interests of personal Pharmacists, as opposed to corporate trading concerns of all kinds.

### POISON LICENCES.

I hold the opinion that the Council should support, in every practical way, the taking of such steps as may be necessary to prevent, as far as is legally possible, the granting of poison licences in local areas in direct business opposition to practising pharmacists.

### TITLE.

With regard to the title "Pharmacist," I am in favour of the Council taking prompt measures to place the absolute exclusiveness of its use beyond all possibility of doubt, and by securing the restriction of the word "Pharmacy" to an establishment owned and controlled by a personal private pharmacist; thus to make the new title as valuable as possible to its legal possessors.

I am a strong believer in the whole local Association movement, and as President of the Thames Valley District Chemists' Association, I have taken a somewhat prominent part in this work.

If elected I would urge upon the Society's Council the desirability of placing the various local Associations upon their proper level in the organisation work of the Pharmaceutical Society.

### ORGANISATION.

I am also a firm believer in organisation, especially as applied to the pharmaceutical calling, and should favour any special scheme of reform in that direction, and would also be prepared to help in the formation of some such scheme, with the object of effectively linking up the whole of the members of the Pharmaceutical Society. As a practical pharmacist myself, if elected to the Council, I should devote my energies to doing all I could for the individual pharmacists in business throughout the country; to safeguard their interests, to promote their welfare, and to improve, in every possible way, the conditions under which we all practise our every-day calling.

I firmly believe that a good deal could be done in this direction by the representation on the Society's Council of the younger generation of practical retail pharmacists, who are fully alive to the several disadvantageous conditions under which the pharmacist in actual business suffers at the present time.

In the past I have devoted as much of my time as was possible to the cause of pharmacy. I have not sought the honour which those who have nominated me have conferred on me, but I am conversant with the needs of both Town and Country Pharmacists, and it will be a pleasure to me in the future, as in the past, to do whatever lies within my powers to promote the true interests of pharmacy.

May I solicit your votes and active support on my behalf?

Your obedient servant,

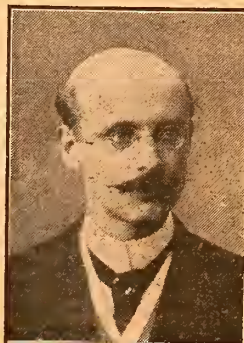
E. T. NEATHERCOAT.

## Another Testimonial.

"I feel it my duty to let you know how I have prospered since I started using your business-increasing system. During the first fifteen weeks of this year I have taken an average of 45 per cent more than I took in the same period last year, when I had not met you. Then I had no faith in ever making a successful business here, but now I am forging ahead splendidly."

Let me try and do this for you. Booklet free, write to-night.

Bernard Slack,  
Princes Chambers,  
WOLVERHAMPTON.





## DISPENSING BOTTLES & PHIALS.

**I. ISAACS & CO.,** Glass Bottle Manufacturers,

106 Midland Road, St. Pancras, London, N.W.

Beg to call attention to their **REDUCED PRICES.**

We make the New Shape, Oval Fronted Bottles. No extra charge.

### FIRST QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or  
9/- 10/- 15/- 20/- per gross } graduated, quinine tinted

### SECOND QUALITY.

3 & 4 6 & 8 12 16 ounce. } Round edges, plain or  
7/6 8/6 12/- 18/- per gross } graduated, clear blue tinted

### PANEL BOTTLES (reduced prices).

2 3 4 6 8 ounce

7/6 8/- 8/- 9/- 10/- per gross.

### WHITE PHIALS—GOOD QUALITY.

3/6 4/- 4/6 5/6 per gross } Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any address in the United Kingdom. Smaller quantities not carriage paid.

Established 50 years. Bankers: London and Westminster Bank

### The New Fast Edge.

## CREPE VELPEAU BANDAGES

THE ONLY ORIGINAL

Introduced by

**W. GIMBER** in 1892.

AN ELASTIC BANDAGE.

Containing no Indiarubber.

Superseding Elastic Stockings,

Weds, Bandages, and at half the

cost. Three sizes—about 2, 2½,

and 3½ inches wide.

### CREPE VELPEAU ABDOMINAL BINDERS.

Useful after many Abdominal Operations, and for ladies after confinements. Two sizes—8 and 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Marks on the Wrappers.

Wholesale of the original Importers and Introducers.

**W. GIMBER & SON,** Surgical Bandage and Instrument Makers,

44 QUEEN'S ROAD, PECKHAM, LONDON, S.E.

And of all Wholesale Druggists, Chemists, Surgical-instrument Makers, &c.

Telephone 2401 Hop.

Descriptive Circular and Price List on application.

**Cameo Brand Thymol Tooth Paste**

**Cameo Brand Violet Oatmeal**

**Cameo Brand Otto of Violet Perfume**

**Cameo Brand Lavender Water**

**Cameo Brand Toilet Lanoline**

**Cameo Brand Bath Crystals**

**Cameo Brand Skin Food**

**Cameo Brand Violet Tooth Paste**

**Cameo Brand Toilet Ammonia**

**Cameo Brand Poudre de Riz.**

**STANDARD TABLET & PILL CO.**  
**HOVE.**

## NEWSOME'S LINTS & BANDAGES.

The Superior Quality of this Lint is admitted.

The VD Quality is quite pure, and of great superficial area and exquisite softness. The C, D, E, and F qualities are equally pure and absorbent.

Also other qualities for hospital use. XW and FF

**CHARLES NEWSOME,** 18 London Road, **MANCHESTER.**

PROPRIETORS BENJAMIN LEES & CO. LTD.

Bleached and Unbleached Bandages, in Open Wove, Calico, Domette, Flannel, and Muslin, from 1-in. to 18-in. wide.

Specially Bleached and Unbleached Abs. Cotton Wool, Plain and Interleaved.

Also Abs. Wool and Gauze, Tow., &c.

NATIONAL TELEPHONE No. 921.

TELEGRAMS: "BANDAGES MANCHESTER."



## HOT WATER BOTTLES

### WHITE RUBBER.

Inches.	Patent Safety Stoppers.	Ordinary Stoppers.
10×6	3/6 each	3/- each.
10×8	3/9 "	3/6 "
12×8	4/3 "	3/9 "
12×10	5/- "	4/4 "
13×9	5/- "	4/4 "
14×8	5/- "	4/4 "
14×10	5/3 "	4/9 "

### LOTS OF HALF-DOZEN SUPPLIED BY WEIGHT.

Patent Stopper ... @ 4/6 lb.  
Ordinary Stopper... @ 4/3 lb.

When this quantity is taken, repeat orders will be charged at same price.

### RED RUBBER

### Finest quality.

Inches.	
10×8	£/9 each.
12×8	4/3 "
12×10	5/- "
13×9	5/- "
14×10	5/3 "

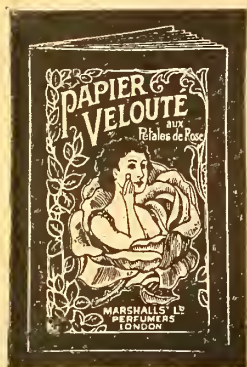
**Fully guaranteed.**

**BAIRD BROS., 97 Bath Street, GLASGOW.**

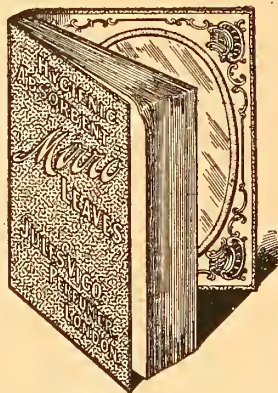


# MARSHALLS' Ltd., Colebrooke Works, ISLINGTON, N.

TELEPHONE: 833 CITY.

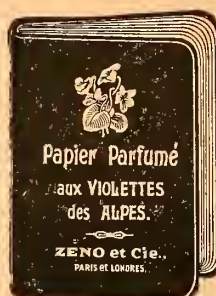
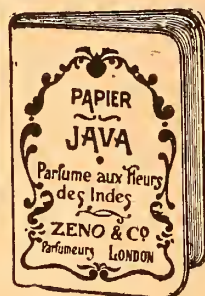
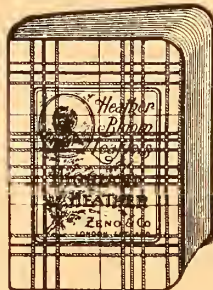


Best selling Book on the Market. 24/- gross.

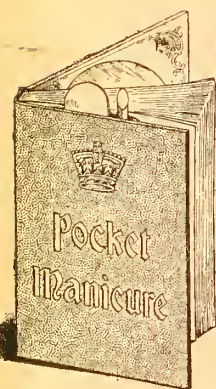


With Mirror, 30/- gross.

## BOOKLETS UP TO DATE. INDISPENSABLE POCKET TOILET COMPANIONS.



Gilt edge, satin bound for high-class trade,  
3/- doz.; with Mirrors, 3/6 doz.



Nail Powder Leaves and Manicure Requisites, also Mirror... 4/- doz.  
A cheaper line in card covers, 2/6 doz.



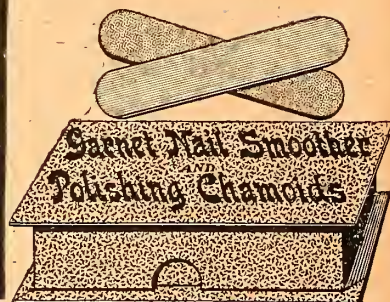
Well-made Leather Wallet, with Gilt edge Powder Leaves, Also improved Nail Smoother & Polisher, &c., 8/- doz.  
Refills, 1/6 & 2/6 doz.



3/- per doz.



Orange Sticks.  
1/2 doz. in bundle,  
2/6 doz. bundles.



1 doz. in Box.  
5/6 per doz. boxes.



### PILE OINTMENT.

An efficacious preparation prepared with witch hazel, neatly packed in 1 oz. tubes, cartoned, complete with tubes, 7/6 doz.; spare tubes 3/- doz.

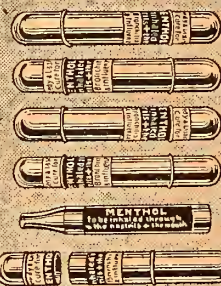


### TOILET CREAMS IN GOLD BLOCKED JARS.

TWO SIZES.



### MENTHOL INHALER For INFLUENZA.



2/6 per doz. Empty 1/6

### TAILOR'S PAD CLOTH CLEANER

For Removing Grease, Paint, Spots or Stains from Dress of any kind without injury



18/- per gross.



### COLLAPSIBLE TUBES

OF ALL KINDS.

Adeps Lanæ, Anhydrous,  
Odourless, 10d. per lb.





ACTUAL SIZE of the  
GRAND DOUBLE FLASK

Acting upon suggestions received from a great number of regular Odol users, we have decided to put on the market a GRAND DOUBLE FLASK which contains just twice the quantity of our 2/6 flasks. This double size flask is protected by the P.A.T.A. at the published retail price of 4/6, 45/6 per dozen, special discounts and terms as for the 1/6 and 2/6 sizes. Both flavours—"Standard" and "Sweet Rose" will be supplied. This new size is sure of a ready sale, being more convenient and economical for family use, also for Navy and Army men going abroad, and the travelling public generally. Wide publicity will be given to this new size in our advertising schemes, and it is recommended to secure a stock of it without delay.

ODOL CHEMICAL WORKS, 59-63 Park Street, LONDON, S.E.

PRICE 14s. NET.

# SQUIRE'S COMPANION

## TO THE BRITISH PHARMACOPŒIA.

18th EDITION.

*The Chemist and Druggist* says: 'Virtually a new book, unequalled in the English language for its treatment of practical pharmacy and pharmaceutical chemistry.'

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*The Lancet* says: 'The "COMPANION" is a classic. . . . it is a standard also.'

*The British Medical Journal* says: 'It gives in a convenient and reliable form just such information as the prescriber needs.'

Chemists can obtain single copies at the trade price of 12s. 6d.

Copies can be obtained of any Wholesale Druggist, of the Publishers, J. & A. Churchill, 7 Great Marlborough Street, London, W.; or from Squire & Sons.

## SQUIRE'S STANDARD PREPS.

### Premier Phosphate Preparations.

#### FEROCAL. (SQUIRE'S CHEMICAL FOOD.)

A permanent bright fluid food. Unrivalled in supplying the bone phosphates so necessary for the diet of quickly growing and delicate children.

Dose—Half to one teaspoonful in half a wineglassful of water twice daily after meals.

#### FEROCAULETTES.

A condensed adjunct to the food of delicate children in a convenient and palatable form.

Dose—One FeroCaulette twice or three times a day for children of two to six years; above this age two may be given twice a day.

#### GLYPHOCAL. SYRUP. GLYCEROPHOSPH. CO. (SQUIRE).

The best method of administering the Glycerophosphates.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

#### GLYPHOCAL with STRYCHNINE.

Each fl. drm. (3'6 c.c.) contains  $\frac{1}{100}$ th grain of Strychnine.

Dose—One to two teaspoonfuls.

#### GLYPHOCAL with FORMATES.

A compound Elixir of the Glycerophosphates with the Formates.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

#### GLYPHOCAL with FORMATES and STRYCHNINE.

Essentially a general reconstructive.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

#### GLYPHOCAL with HÆMOGLOBIN.

A reliable and scientifically prepared solution of the Glycerophosphates with Hæmoglobin.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

### Ferruginous Fluids.

#### FERMANGLOBIN.

A fluid preparation containing Hæmoglobin.

Dose—One teaspoonful to a dessertspoonful.

#### FERMANGLOBIN with NUX VOMICA.

Dose—One teaspoonful to a dessertspoonful.

#### FERMANGLOBIN with ARSINYL.

Dose—One teaspoonful to a dessertspoonful.

#### MALTOGLOBIN.

A palatable and readily assimilable Elixir.

Dose—One dessertspoonful to a tablespoonful.

#### MALTOGLOBIN with ARSENIC.

Dose—One dessertspoonful to a tablespoonful.

### Active Aromatic Aperients.

#### KASAK ELIXIR.

A palatable preparation of Cascara Bark, free from objectionable bitterness.

Dose—One tablespoonful.

#### KASENA.

A well-adjusted and useful combination of Cascara and Senna.

Dose—One teaspoonful to a dessertspoonful.

#### SENNINE. Or NEW SYRUP OF SENNA (SQUIRE)

An excellent aperient for children and delicate persons.

Dose—One teaspoonful.

### Typical Terperoin Therapy.

#### ELIXIR TERPEROIN.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

#### GLYCERO-TERPEROIN.

Dose—One to two fl. dr. = 3'6 to 7'1 c.c.

#### PASTIL. TERPEROIN.

Dose—One or two occasionally.

# SQUIRE & SONS,

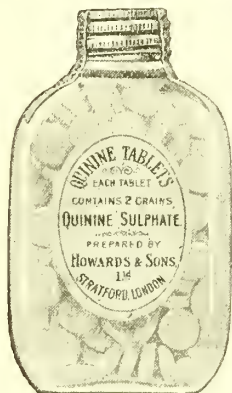
CHEMISTS ON THE ESTABLISHMENT OF THE KING,  
413 Oxford Street, London, W.



# HOWARDS & SONS, LTD.

(ESTABLISHED 1797).

## HOWARDS' QUININE TABLETS.



Howards & Sons, Ltd., draw special attention to their Tablets, which are made of their own pure Quinine Salts. Particular care is exercised to ensure

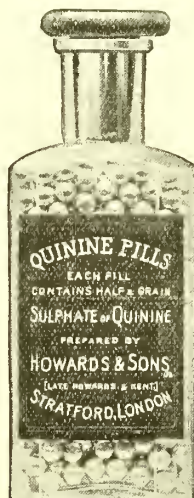
### ACCURACY OF DOSE,

a most important matter, but one too often neglected, as analysis will prove.

Uncoated Tablets are strongly recommended, since sugar-coating is very liable to crack and become unsightly.

Sold in bulk, and in bottles containing 25, 50, and 100 Tablets.

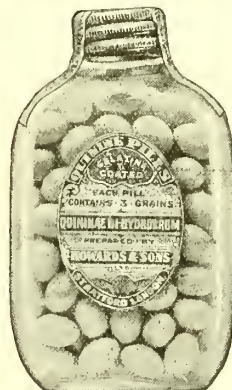
## HOWARDS' QUININE PILLS (Silver-coated).



Where small doses are required, these are very extensively used, and that they give excellent results may be judged from the millions sent out annually by the firm,

$\frac{1}{2}$ -grain Pills, sold in bottles of 100, 250, and 500 Pills.

## HOWARDS' QUININE PILLS (Gelatine-coated).



These are a new product of the firm, and special attention is drawn to their

### OVAL SHAPE,

which makes them particularly easy to swallow. Here again a special feature is the extreme accuracy of the dose, and their elegant appearance ensures them a ready sale.

2 and 5 grain Pills, sold in bulk, and in bottles, containing 25, 50, and 100 Pills.

# STRATFORD, LONDON, ENGLAND.

# BRUNNER, MOND & Co.'s

Alkali  
Products.



Crescent  
Brand.

These products are made by the Ammonia Process, and are distinguished from others by their great purity.

**Bicarbonate  
of  
Soda.**

**This Bicarbonate answers all the requirements of the British Pharmacopœia.** It is a pure, refined, and recrystallised salt, particularly free from metals or any base other than soda.

This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

**Concentrated  
Crystal  
Soda.**

This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

**Pure Alkali.**  
58 Degrees.

A dry white powder; dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

**Pure  
Soda  
Crystals.**

**NOTE.**—Proceedings have been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of **FOWLER v. CRIPPS**, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.

**Caustic  
Soda.**

**Bleaching  
Powder.**

Manufactured from pure Carbonate, and supplied of all degrees of strength.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The Manufacturers supply wholesale quantities only, and will quote on application to

**BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.**



# RESINOL,

A PERFECT OINTMENT THAT IS THOROUGHLY EFFICIENT AS AN  
ANTIPRURITIC, ANTISEPTIC, LOCAL ANTIPHLOGISTIC and SKIN NUTRIENT,

And is now being successfully used and prescribed by over

**100,000 PHYSICIANS**

In the United States, Canada, and Great Britain,

For Eczema, Erysipelas, Pruritus, and all Itching and Inflammatory Skin Diseases.

THE ONLY POSITIVE REMEDY FOR PRURITUS ANI KNOWN.

## RESINOL SOAP

ABSOLUTELY PURE and SCIENTIFICALLY MEDICATED.

The Best Soap for the Skin, the Hair, Scalp, &c. Promptly removes odours from handling Chemicals, Wounds, &c. Also a superior Shaving Soap.

## RESINOL CHEMICAL COMPANY

SOLE MANUFACTURERS.

Main House, BALTIMORE, MARYLAND, U.S.A. Great Britain Branch: 97 New Oxford Street, LONDON, W.C.

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## 25% Protected Profit

Prices of Iron-Ox Tablets to the Trade.

<u>One Shilling size</u>	Under 6 dozen 10/- per dozen net. Cash with order.
	6 dozen 9/9 per doz. net in 30 days, or 9/6 cash in 10 days.
	12 „ 9/3 do. do. or 9/- do. do.
<u>Four Shilling size</u>	Under 1½ dozen 40/- per dozen net. Cash with order.
	1½ dozen 39/- per doz. net in 30 days, or 38/- cash in 10 days.
	3 „ 37/- do. do. or 36/- do. do.
<u>Mixed Orders</u>	The above terms for 6 dozen 1/- size, or 1½ dozen 4/- size will be given on mixed orders value £3. And our very best terms on mixed orders value £6.

Retail Price P.A.T.A. PROTECTED 1/- and 4/- face value. Carriage paid On all goods.

Attractive Show Cards, Window Slips, &c., Free on Application.

# IRON-OX

TABLETS.

To be obtained from all the principal Wholesale Houses or direct from THE IRON-OX  
REMEDY CO., Ltd., 20 Cockspur Street, Trafalgar Square, London, S.W.

# PROFITABLE LINES

... FOR ...

## SOUTH AFRICAN CHEMISTS.

A full range of .

### VETERINARY INSTRUMENTS — AND APPLIANCES —

is stocked by C. E. GARDNER & CO., LTD., at EAST LONDON.

*Liberal Discounts to the Trade.*

Illustrated Price List on application, and a limited number for distribution if desired.

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Port Elizabeth, East London, Bloemfontein, and King William's Town.

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Shippers of Drugs, Chemicals, Druggists' Sundries, Patent Medicines,  
Photographic and Optical Goods, Surgical and Dental Instruments,  
:: :: Confectioners' and Mineral Waters Requirements, &c. :: ::

Act as London Agents for the Leading  
Firms of Wholesale Chemists and Druggists  
throughout South Africa.

Are prepared to accept Sole Agencies  
and energetically push good Selling Spe-  
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Have correspondents carrying wholesale stocks in—and make direct shipments to the  
following principal towns:—

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Travellers constantly visit smaller towns and country districts of Cape Colony, Natal,  
Transvaal, and Orange River Colony.

Firms desirous of pushing South African trade should consult us.



# INDIA.

**Messrs. SMITH, STANISTREET & CO.**  
WHOLESALE CHEMISTS, &c.  
**CALCUTTA**

possess exceptional facilities for introducing new remedies to the Medical Profession in the eastern half of India, having as clients practically every medical man of repute, and every hospital in Bengal, Assam, the Central Provinces, United Provinces and the Punjab. Messrs. S. S. & Co. are also prepared to undertake wholesale agency for established Proprietary Remedies in the provinces specified. Messrs. S. S. & Co. are sole wholesale agents for Bile Beans, Zam-Buk, Collis Browne's Chlorodyne, Doan's Medicines, Jeye's Cyllin, and other goods in large demand. Agency terms on application.

**B. A. SMITH & CO.,** 4 CHURCH ROW, ALDCATE,  
LONDON, E.C.

(HENRY BOYCE, Manager), AGENTS FOR

**JOH. DIEDR. BIEBER, HAMBURG:**

Tinctures, Ethers, Liniments, and Spirituous Extracts, &c., prepared with purest Spirit, and from best quality of raw Drugs, in accordance with requirements of British and other Pharmacopœias, Iodoform (absolute), Iodine Resublimed, Potassium Iodide, Sodium Iodide, all Preparations of Bromine, Santonin (from Turkestan factory), Cocoa Butter, Castor Oil, Chloroform, Cod Liver Oil, Resina Jalapæ, Resina Scammonia.

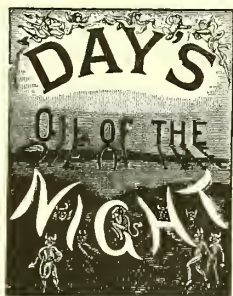
**DE DIETRICH & CO.'S ACID-PROOF ENAMELLED CAST IRON APPARATUS,**

Standing the strongest corrosives and highest pressures, for the Chemical and kindred industries.

**R. SCHUCHARDT, TRIESTE: Insect Powder, Insect Flowers, &c.**

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## DAY'S OIL OF THE NIGHT



The great household Remedy for Chest Colds, Sore Throat, Rheumatism, Sciatica, & all aches & pains.

"A positive pain killer,"—DR. GORDON STABLES, R.N.

Advertised Prices ... 1/1½ and 2/9 per bottle.

Trade Prices ... 10/- and 25/- per dozen.

CARRIAGE PAID.

Proprietors:—**DAY & SONS, CREWE, LTD., CREWE.**

## LOFTHOUSE & SALTMER, Wholesale and Export Drug Merchants, Manufacturing Chemists, HULL,

Offer the Trade the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the Country.

PROTECTED RETAIL PRICE.		DOZEN.	PROTECTED RETAIL PRICE.		DOZEN.
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/6 net.	PREPARED BARLEY ("Crown Brand.")	— ...	4/- net.
" " " bottles ...	1/- ...	7/- "	Usual 1/- size, lever lid tins. A good selling line ...	— ...	4/- net.
" in cartons ...	1/6 ...	10/6 "	MALTED FOOD. Usual 1/- size, lever lid tins. Buyer's name and address printed free on 3 dozens. Special design label, name and address, on gross orders if desired ...	— ...	4/6 "
LOSALL'S MILK FOOD, oblong tins 1/- size. Ideal Food for children and adults ...	8d. ...	5/6 "	LOSALL'S FOOT-ROT OINTMENT, enamelled tins ...	1/- ...	7/6 "
FINEST HYGIENIC FIRST MILK FOOD "Crown Brand," specially adapted for infants from birth to 3 or 4 months, tins 1/3 ...	1/- ...	7/6 "			

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business.

London Agents: **F. NEWBERRY & SONS.**

If you want close up-to-date Quotations for superior and approved Counter Specialities, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to

**LOFTHOUSE & SALTMER, Wholesale Druggists, HULL**

# COCAINE & ITS SALTS

*Highest  
Purity.*

*Narcotine.*

# MORPHINE & ITS SALTS

*Cotarnine.*

**Tartaric Acids,  
Lactic Acids,  
and their salts**

# CODEINE & ITS SALTS

**C. H. BOEHRINGER SOHN,**

*Nieder-Ingelheim-on-Rhine.*

FOR SPECIAL OFFERS, ADDRESS AS ABOVE.

# Merck's

# COCAINE

Atropine, Eserine, Pilocarpine, Veratrine, Salicylic Acid, Santonin, Salol, Chloralhydrate, Creosote, Paraldehyd, Bismuth Salts, Lithia Salts, Tannic Acid, Gallic Acid, Chrysarobin, Hydroquinone, Glycero-phosphates, Cacodylates, Veronal, &c.

Headquarters for MEDICINAL, ANALYTICAL & TECHNICAL CHEMICALS.

**E. MERCK, DARMSTADT.**

ST. LOUIS EXHIBITION 1904—  
GRAND PRIX & GOLD MEDAL.

LONDON OFFICE:

**16 JEWRY STREET, E.C.**

# SANKYO & CO.

... IMPORTERS OF ...  
CHEMICALS, DRUGS, AND  
SURGICAL INSTRUMENTS,

MUROMACHI 3-CHOME, TOKYO, JAPAN.

**SANKYO & CO.** are the largest Wholesale Druggists in Japan, and will undertake the introduction of new chemicals, preparations, selected Toilet Articles, and Surgical Instruments for Manufacturers desiring to sell their goods in Japan.

Send samples, literature and price lists in any language to the above address.

日本東京南茅場町  
三共薬品会社

# NOTICE.

# MILK EMULSION.

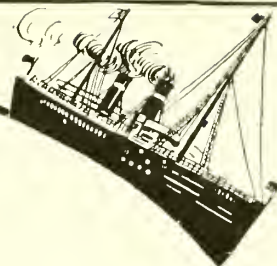
THE name "Milk Emulsion" is our Trade Mark for an Emulsion of Cod Liver Oil with Hypophosphites, and designates specifically that it is our preparation. Our Emulsion is known in commerce as "Milk Emulsion," and when "Milk Emulsion" is ordered people expect to receive FAULDING'S MILK EMULSION. We hereby give notice that no other persons can use the same name on their labels, wrappers or advertisements without infringing our legal rights.

"Milk Emulsion" is sold in Bottles only. Wholesale, by—

**F. H. FAULDING & CO.**

54 Great Tower Street, London, E.C.  
54 King William Street, Adelaide, South Australia.  
341-3 Murray Street, Perth, Western Australia.  
16 O'Connell Street, Sydney, New South Wales.



**UNITED  
STATES**

**ANTI-KAMNIA**  
**CARTER'S LITTLE LIVER PILLS**  
**CARBONA PRODUCTS**  
**CASTORIA**  
**COLGATE'S SOAPS, &c.**  
**DR. WILLIAMS' PINK PILLS, &c.**  
**ECKELAER'S SOAPS, &c.**  
**EMERSON'S BROMO-SELTZER**  
**FORMOLYPTOL**  
**FROG IN YOUR THROAT**  
**GAYETTY'S PAPER**  
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**GREAT BRITAIN**

GOLD MEDAL, PARIS, 1900.

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ALL THE ABOVE ARE **British Products** GUARANTEED TO BE  
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A few years ago, in response to a demand for a high-class concentrated Bronchial Wafer, we perfected the finest known formula and introduced it into the market

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We spared no effort to make this Wafer

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These Wafers average 120 to the ounce.  
The card box contains about 90 Wafers.  
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The liniment which eases pain without the necessity of rubbing.

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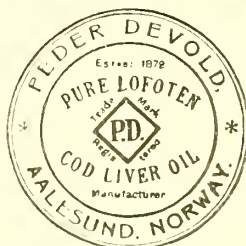
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A customer who once buys Guy's Tonic buys it regularly, because Guy's Tonic always accomplishes what is claimed for it.

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BRANDS

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These juices, being **PURE**, bear the highest possible percentage of glycyrrhizin, and are consequently the most economical for all purposes.

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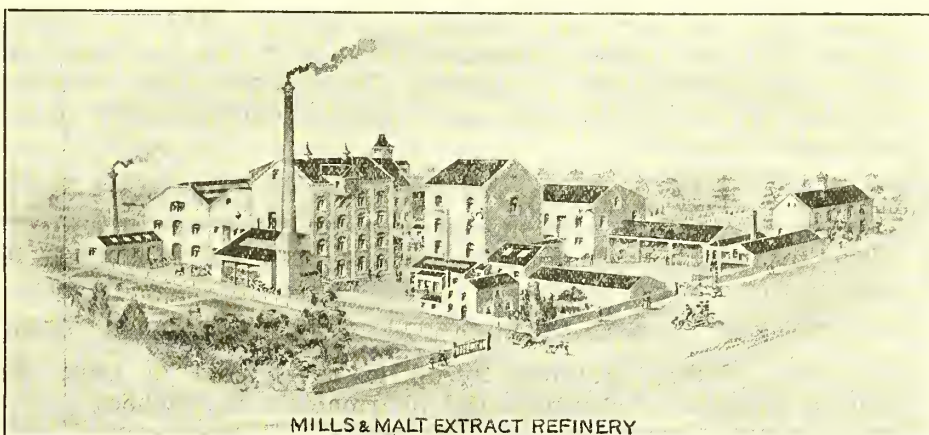
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THE PHYSICIAN OF MANY YEARS' EXPERIENCE knows that, to obtain immediate results in the treatment of Anæmia, Neurasthenia, Pulmonary Tuberculosis, and wasting diseases of childhood, and also during convalescence from exhausting diseases,

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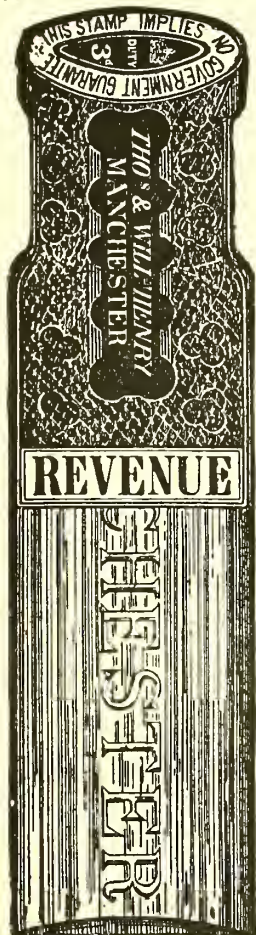
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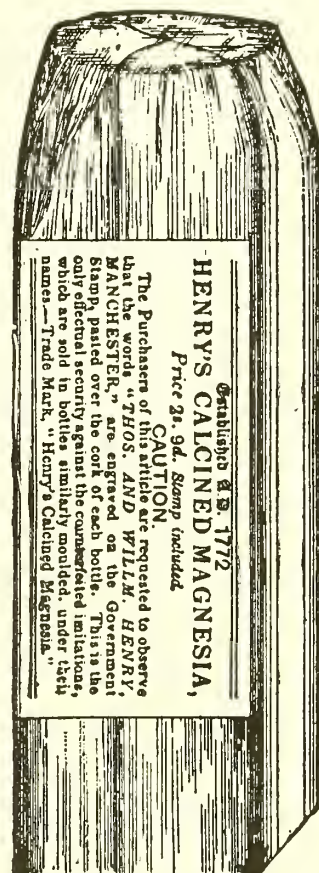
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May be given to children in early infancy. The addition of a small quantity of the Magnesia prevents milk turning sour on the stomach.

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CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

**SPECIAL QUALITY.**

**FINEST, LIGHTEST,  
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Every particle is passed  
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A TEST OF RELIABILITY.**

**45%** By selling 1 doz. 2/9, 13 to a doz.

The 2/9 Box contains three Boxes of the 13 $\frac{1}{2}$ d. Pills.

It will Pay to Push the Sale of the 2/9 Box.

**KEARSLEY'S**

(Over 100 Years' Reputation)

**WIDOW WELCH'S**  
**ORIGINAL FEMALE PILLS.**

**P.A.T.A.** 13<sup>1</sup>/<sub>2</sub>d., 9/6 per doz.  
**PRICES TO THE** 2/9 size, 23/- per doz., 13 to doz.  
**TRADE.** Minimum Re-selling Prices, 13<sup>1</sup>/<sub>2</sub>d. - 1/-, 2/9 - 2/6.

The Retailer knows that Kearsley's are "The Genuine," and we trust the trade will explain this to all customers who ask for cheaper imitations.

VERY SPECIAL REDUCED TERMS to Shippers for Bottles for Export 13 to doz., 2/9 size, and for 3 Gross of Boxes.

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**N.B.**—These Pills do not contain any deleterious or prohibitive drugs, and can be sold with **safety** in the **Colonies** at good profits.

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(Late of 17 North Street, Westminster.)

## Popular Priced Pills

### ***Soluble Pearl-Coated.***

<b>Pil.</b> Aloes et Ferri, gr. iv.; Ol. Pulegii, ℥ ⅓	2d. per gross.
<b>Pil.</b> Antibilious, Pil. Hydrarg., Pil. Rhei Co., aa. gr. ij. ss.	4d. per gross.
<b>Pil.</b> Aperient (Ext. Aloes Aquos. ʒj, Pulv. Cambog. gr. iv.; Pulv. Jalapam. gr. viij.; Pulv. Colocynth. gr. vj.; Pulv. Hyd. Subchlor. gr. iv.; Sapo Hyspan. gr. iv.; Gingerin. gr. ij.; Ft. Pil. xij.)	23d. per gross.
<b>Pil.</b> Aperient (Little) (Aloin, Jalapin, aa. gr. 1-10; Podophyllin gr. 1-5; Hyoscy., Ext. Nucis Vom., Capsicin, aa. gr. 1-30)	2d. per gross.
<b>Pil.</b> Back and Kidney (Oval) Gelatine-coated (Ext. Buchu, Ext. Uvae Ursi, Pulv. Capsici, aa. gr. ½; Ol. Juniper, ℥ ⅓; Pulv. Pot. Nit. gr. j.; Podophyllin, gr. ʒ; Tereb. Venet., gr. ʒ)	7d. per gross.
<b>Pil.</b> Castor Oil (Ol. Ricini, gr. ʒ; Pot. Sulph., gr. 1½; Pulv. Rhei, gr. ij.; Sapo Hyspan., gr. ʒ; Ol. Crotonis, gr. 116)	2d. per gross.
<b>Pil.</b> Calci Sulphid., gr. ʒ ⅓ ¼, or 1	23d. per gross.
<b>Pil.</b> Coloc. Co., B.P.	51d. per gross.
<b>Pil.</b> Coloc. et Hyoscy., B.P.	51d. per gross.
<b>Pil.</b> Dantelion and Camomile (Ext. Turaxaci, Ext. Anthem. Pulv. Rhei, aa. gr. j.; Pulv. Zingib., Pulv. Aloes Barb., aa. gr. ¼; Ol. Carui, gr. ʒ)	23d. per gross.
<b>Pil.</b> Ferri Co., B.P.	96 per 100 gross.
<b>Pil.</b> Gout and Rheumatic (Ext. Colchici Acet., gr. ss.; Pil. Hydrarg., Pil. Rhei Co., Ext. Hyoscy., aa. gr. j.)	7d. per gross.
<b>Pil.</b> Ipecac. et Scillae, B.P.	3d. per gross.
<b>Pil.</b> Neuralgic (Quineti, Ferri Sulph., aa. gr. ½; Ext. Bellad. gr. ʒ; Ext. Colchici Acet., gr. ʒ; Hyoscy. Camphore, aa. gr. j.)	8d. per gross.
<b>Pil.</b> Podophyllin (Podophyllin gr. ʒ; Ext. Coloc. Co., gr. ʒ; Pulv. Aloes Socot., gr. j.; Pulv. Scammon., gr. ʒ; Sapo Hyspan., Ext. Hyoscy., Gingerine, aa. gr. ʒ)	5d. per gross.
<b>Pil.</b> Quinine, gr. j.	51d. per gross.
<b>Pil.</b> Quinine, gr. ij	19d. per gross.
<b>Pil.</b> Rhei Co., B.P.	2d. per gross.
<b>Stomach and Liver Beans (Oval) Gelatine-coated, same Formula as Pil. Aper., but with 1 gr. Calomel in each Bean</b>	5d. per gross.

Minimum quantity, 5 x 10 gross tins, which may be assorted, with the exception of Pil. Ferri, B.P. All Pills Pearl-coated unless otherwise indicated. No extra for coloured coatings.

**Only Terms: CASH WITH ORDER.** All packages free. Quality guaranteed. Finish unsurpassed. Carriage paid.

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**The Pill, Tablet & Capsule Alliance,**  
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**HAWLEY'S I.K.**

**A New . . .  
Insecticide.**

Greatly superior  
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Insect Powder.



**Hawley's I.K.**

will be found a  
very effective  
exterminator  
of all  
Insect Pests.

**On P.A.T.A. List.**

Min. Retail:

4½d. each.	...	...	...	...	2, 10 doz.
6d.	..	...	...	...	4/- ..
1/-	..	...	...	...	8 - ..

to drug a/c.

GIANT DUMMY, WINDOW SLIPS, SHOWCARDS, &  
HANDBILLS PROVIDED,

**HAWLEY'S I.K. BELLOWS, 4/- doz.**

**Evans Sons Lescher & Webb**  
London & Liverpool. **LIMITED**

# PRECIPITATED CHALK.

EXTRA LIGHT, THE PUREST AND WHITEST DENSE, AND OTHER QUALITIES TO SUIT ALL PURPOSES.

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**J.D. Quinine and Cinnamon Oil Perles**

**RELIABLE AND EFFECTIVE.**

PUT UP IN Fancy Decorated Tins to retail at 1/- each,

**6/6 per doz. net.**

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(The New Complete Food)

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### PRICES:

1/- size ... .. 9/6 per doz. net.

1/9 size ... .. 16/- per doz. net.

3/- size ... .. 28/- per doz. net.

Less 5 per cent. on 1 gross lots of 1/9 size or equivalent.

Carriage Paid on 3 dozen orders of 1/9 size or equivalent.

Minimum Retail Prices 1/-, 1/9 and 3/- per tin.

*Showcards and Giant Dummies on Application.*

**A. WANDER, Ph.D., Manufacturing Chemist,**

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**LUNG  
TONIC**  
P. J. Formola,

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THE  
GREAT CURE  
FOR  
COUGHS, COLDS  
ASTHMA,  
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INFLUENZA,  
And all Affections of the  
CHEST,  
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## QUICK SELLER—SURE REPEATS.

**LUNG  
TONIC** P.J. Form., therefore no  
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40/- per gr.  
Double Size  
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FREE Delivery.  
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**Profit over 100% and nothing  
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of excellence maintained as when our products were noticed by THE CHEMIST AND DRUGGIST of Sept. 9th, 1899: "The Resins (Podophyllin and Scammony) are also manufactured by the firm, as they use large quantities of them in their pill factory. We have tested both and find them to be pure, the Podophyllin-Resin being quite free from earthy components, which are sometimes added to facilitate precipitation, and which result in partial products."

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3 DOZEN LOTS.

Pil. Quininae, gr. 1, per gross, 6d.; gr. 2, 10d.

Liver Beans - - - per gross, 5d.

Back and Kidney - - per gross, 7d.

(Modern Formula.)

Tablets, Cascara Sag. (Sugar Coated) grs. 2, guaranteed three-year old bark.....	Per doz. 25's	Per doz. 50's	Per doz. 100's	Bulk, per 1,000
Alain Comp. (Choc. or Sug. coated)	1/3	2/9	3/6	2/9
Phenacetin Co., White or Pink....	2/2	3/8	7/-	3/9
	2/1	4/1	7/-	4/6
Capsules, Bals. Copaib., m. 10 ...	3/6	4/6	1/-	7/-
Ol. Santal. Flav. Ang., m. 10 .....	10/-	14/-	2/9	24/-
Ext. Cascara Liq. m. 30 .....	5/-	6/3	1/4	9/-

Glycerine Suppositories, Adult Size, per doz. boxes, 5/-; Children's, Torpedo Shape, 3/6; Infants', 3/-.

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## **New Poisons & Pharmacy Bill**

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**I**N reply to enquiries, we beg to state that Chemists should not request purchasers to sign a Poison Book, seeing that this medicine **does not** come within Part I of the Poisons Schedule.

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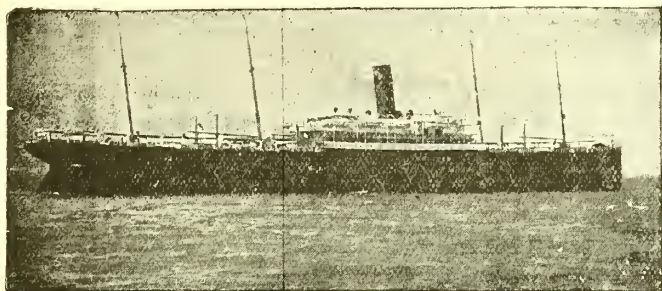
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SPECIAL PRICES FOR QUANTITY.

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A Pure White . .  
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CURES ECZEMA,

CUTS,  
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Cures the Pain First

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CURRY'S Ointment.	1/-	1/-	9/- per doz.
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Above Prices are for orders, one Dozen and over. Odd lots under one Dozen at 10s. Dozen rate. All carriage paid. Show Cards and Counter Bills supplied free.

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Blaud's Capsules = 2 pil., 24 in box,	3/6	1/-	7/6
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Castor Oil ... ..2m	4/9	1/3	8/9
Copaiba ... ..10m	4/3	1/6	9/9
Copaiba Compound ...10m	5/6	1/6	11/6
Creasote ... ..2m	3/6	1/-	7/6
Mæmoglobin ... ..3 gr.	5/-	1/3	10/-
Ichthylol ... ..3 gr.	6/3	1/9	14/3
Quin. Ammon. ... ..1 gr.	4/9	1/3	10/6
Santal Oil (Ang.) ...10m	9/-	2/9	24/-
Santal Oil (Ang.) ...10 drop	8/-	2/3	20/-
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Special quotations for large quantities and private formulæ.

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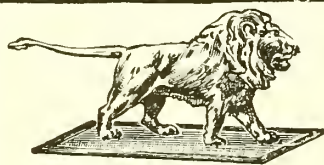
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For over thirty years this preparation has steadily progressed in public favour wherever the use of an Ointment is indicated, its sale is world wide, and the trade mark is protected by registration in all the Colonies, and other countries. To Chemists it may be considered an addition to their Sundries trade, as nearly all users of same require lint, bandages, antiseptic fluid, or some accessory.

Kept in stock by all Wholesale Houses. Showcards, Counter Bills, &c., direct from the PROPRIETOR—

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Beware of imitations made from inferior materials now being offered to the Trade. The advantages are greater comfort and retention of *warmth* and *moisture*. It can be washed and re-used as often as required, and obviates all the trouble of the old mode of poulticing and fomenting.

DIRECTIONS.—Simply soak it in the Water or Lotion, and apply the moist Spongy surface.

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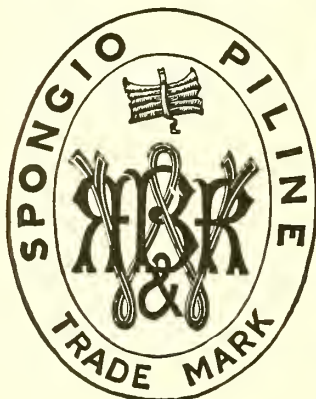
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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this paper on Terms as below.

Acetanilide, B.P., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.; 1 lb. @ 1/3 lb.  
 \*Acet. Ipecac. B.P., 7 lbs. @ 1/2 lb.  
 \*Scillæ, B.P., 7 lbs. @ 3d. lb.  
 \*Acetone, 6 lbs. @ 1/2 lb.; 1 lb. @ 1/4 lb.  
 \*Acid Acet. Glacial, 99%, 12½-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d.  
 Acid Acetyl-Salicyl., 56 lbs. @ 2/1 lb.; 7 lbs. @ 2/3 lb.; 1 lb. @ 2/5 lb.  
 Benz. B.P., 7 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.  
 Boric. Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; Levigated, 3/- cwt. extra.  
 Carbol Xtls., 39/40; 56 lbs. @ 5½d. lb.; 10-lb. Tins @ 6/- each; Detached Cryst. 8/- each; 6 1-lb. Bots. @ 11d. lb.; Detached Cryst. 2d. lb. extra; Orude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/5 each.  
 Citric Cryst., B.P. '85, 1 cwt. @ 1/5 lb.; 7 lb. in Bags @ 1/6 lb.; powder 1/4 extra.  
 Diethylbarbituric, 16 oz. @ 2/- oz.; 1 oz. @ 2/8 oz.  
 Gallic pur. P.B., 7 lbs. @ 1/10 lb.; 1 lb. @ 2/- lb.  
 Hydrobrom. dil., B.P., 6 lbs. @ 7d. lb.  
 Hydrochlor. Coml., cases of 4 2-gal. jars, 17/- each; 20 case lots @ 16/- each.  
 Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1 oz. Vials @ 3/6 doz.  
 Oxalic Cryst., 5 cwt. @ 3½d. lb.; 1 cwt. @ 3½d. lb.; 14 lbs. @ 4d. lb.  
 Phosph. Dil., B.P., 8 lbs. @ 4½d. lb.  
 Psyll. pulv., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1/2 lb.; 7 lbs. @ 1/3 lb.; pbya. pure, 1 lb. @ 3/- lb.  
 Sulphur. Coml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.  
 Sulph. Aromat., B.P., 5 lbs. @ 2/11 lb.  
 Tannic, B.P., 7 lbs. @ 2/2 lb.  
 Tart. cryst. or pulv., B.P. 1885, 1 cwt. @ 10½d. lb.; 7 lbs. @ 11½d. lb.; parv. 4d. lb. extra.  
 Adeps Benz., B.P., 28 lbs. @ 8d. lb.  
 Adeps Lanæ B.P. Anhydrous, 2 cwt. @ 52/6 cwt., Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5/- cwt., 14 lbs. @ 8/- cwt., 7 lbs. @ 12/- cwt. extra.  
 Aloes Barb., English Ground, 28 lbs. @ 88/- cwt.; 7 lbs. @ 10½d. lb. [1/8 lb.]  
 Aloes, Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/8 lb. [1/8 lb.]  
 Ergo Aris Exot. Pulv., 14 lbs. @ 1/- lb.  
 Aloin B.P., 1 lb. @ 3/9 lb.  
 Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.  
 Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.  
 Camphor, English Flowers, "not artificial," 5 lbs. @ 1 11 lb.; 1 oz. 7 lbs. @ 12/2 lb.; 1 oz. 7 lbs. @ 2/4 lb.; 1 cwt. lots, 1d. lb. less; Japan Refined, 1 oz. 7 lb. @ 2/- lb. Crude, 140 lbs. @ 1/4½d. lb.; 28 lbs. @ 1/6 lb.  
 \*Ess. Pear (artificial), Jargouelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.  
 \*Ess. Pineapple, 5 lbs. @ 2/9 lb.  
 \*Raspberry, 5 lbs. @ 1/8 lb.; 1 lb. @ 2/- lb.  
 \*Vanilla Beaus, 5 lbs. @ 4/- lb.; 1 lb. @ 4/3 lb. [4/6 lb.]  
 \*Ext. Belladonna Liq. B.P., 5 lbs. @ 4/- lb.; 1 lb. Ext. Cannab. Ind. Alc. B.P., 5 lbs. @ 36/- lb. 1 lb. @ 37/- lb.  
 Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/1 lb.  
 \*Ext. Ergot. Liq. P.B., 5 lbs. @ 3/- lb.; 1 lb. @ 3/2 lb.  
 Ext. Filicis Liq., P.B., 9 lbs. @ 4/2 lb.; 1 lb. @ 4/8 lb.  
 Ext. Gent. P.B., Solid, 1 cwt. @ 8½d. lb.; 7 lbs. @ 9½d. lb.  
 \*Glycyrrh. Liq. B.P., 6 lbs. @ 1/4 lb.  
 \*Hamamelis, Liq. P.B., 5 lbs. @ 3/- lb.  
 Hyoscyam. Solid P.B., 3 lbs. @ 8/9; 1 lb. @ 9/3 lb.  
 \*Ext. Ipecac. Liq. P.B., 5 lbs. @ 10/6 lb.; 1 lb. @ 11/3 lb.  
 \*Malt. c. Ol. Jecoris, 10 lbs. @ 5½d. lb.  
 \*Ext. Nuclei Vom. Liq. B.P., 5 lbs. @ 2/6 lb.; 1 lb. @ 2/9 lb.; solid 4d. lb. extra.  
 \*Opil Solid P.B., 1 lb. @ 30/- lb.  
 \*Opil Liq. B.P. 5 lbs. @ 3/8 lb.; 1 lb. @ 3/10 lb.  
 Quassia, Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/4 lb.  
 Sarsæ, Co. Solid; 7 lbs. @ 4/- lb.; 1 lb. @ 4/6 lb.  
 Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.

Ferri et Quinina Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½d. oz.; 25 ozs. @ 3½d. oz.  
 Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 2d. lb.  
 Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.  
 Flor. Anth. Exot., first pickings 1908, 1 cwt. @ 66/- cwt.; 7 lbs. @ 8d. lb.; 2nd. 1 cwt. @ 48/-; Fol. Buchu, round good green, 1 cwt. @ 1/- lb.; 7 lb. @ 1/2 lb.  
 Hyoscyam. Bien., 1 lb. @ 12/- lb.  
 Senneæ, Alex. Parv., 1 cwt. @ 4d. lb.; 28 lbs. @ 4½d. lb.  
 Senneæ Tinnev, 3½ cwt. @ 2½d. lb.; 1 cwt. @ 3½d. lb.; 7 lbs. @ 3½d. lb.; English Ground, 1 cwt. @ 5½d. lb.; 56 lb. @ 6d. lb.; 7 lbs. @ 7d. lb.  
 Formaldehyde, 40%, 132-lb. Carboys @ 50/- each; 7 lbs. @ 7½d. lb.  
 Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.  
 Gamboge English Ground, 7 lbs. @ 4/4 lb.; 1 lb. @ 4/8 lb.  
 Ginger, English Ground, 1 cwt. @ 52/- cwt.; 7 lbs. @ 6½d. lb.  
 Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.  
 Glycerin. Opt., D.D., 1260 P.B., 1 cwt. @ 73/- cwt.; 56 lb. @ 74/- cwt.; 12 lbs. @ 3½d. lb.  
 Lin. Camph. P.B., 40 lbs. @ 11d. lb.; 9 lbs. @ 1½d. lb.  
 Lin. Sapo Metb., 9 lbs. @ 7d. lb.  
 Lin. Tereb. Acet., B.P., 3 lbs. @ 1/- lb.  
 Linseed c. Oil, Crushed, 3 cwt. @ 16/- cwt.; 1 cwt. @ 16/6 cwt.  
 Lintum, 1 lb. @ 1/4 lb.  
 Liq. Ammonii Acetatis Couc. 1-7, 6 lbs. @ 10½d. lb.; 1 lb. @ 1/0½ lb.



\*Liq. Ammon. Aromat., 6 lbs. @ 8d. lb.  
 \*Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.  
 \*Arsenicals, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
 \*Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.  
 Bismuth. P.B., 6 lbs. @ 10½d. lb.  
 Copaiba Bucha et Oubeb, 5 lbs. @ 2/4 lb.; 1 lb. @ 2/8 lb.  
 \*Easton, ps. 1-3, B.P., 1 lb. @ 3/- lb.  
 \*Ferri Dialysatus, 6 lbs. @ 7d. lb.  
 \*Ferri Iod. ps. 1-7, 1 lb. @ 5/9 lb.  
 \*Ferri Perchlor. Fort. P.B., 7 lbs. @ 4d. lb.  
 \*Ferri Phosph. Co. ps. 1-7, 7 lbs. @ 1/6.  
 \*Hypophosph. Co. ps. B.P.O., 1 lb. @ 3/4 lb.  
 \*Iodi Fort. B.P., 5 lbs. @ 3/9 lb.  
 Shellac (Orange), 1½ cwt. @ 88/- cwt.; 7 lbs. @ 1/- lb.  
 Soda Caustica, 28-lb. tin @ 8½d. lb.; 6 1-lb. Bots. @ 10d. lb.  
 Soda Cit., B.P., 3 lbs. @ 2/2 lb.  
 Sodii Bromid. P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.  
 Sodii Hyposulphate pea cryst., 1 cwt. @ 8/6 cwt.  
 Soda Salicyl. Pulv., 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7 lb.; pbya. pur., 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.  
 Soda Sulphocarbolas B.P., 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.  
 \*Spt. Ether Nit. P.B., 4½ lbs. @ 2/9 lb.; 1 lb. @ 2/11½ lb.  
 \*Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/1½ lb.  
 \*Spt. Chloroformi P.B., 5 lbs. @ 2/10 lb.  
 Strontia Bromid., 1 cwt. @ 1/2½ lb.; 7 lbs. @ 1/4½ lb.; 1 lb. @ 1/6 lb.

Strychnina cryst. B.P., 100 oz. @ 1/5½ oz.; 25 ozs. @ 1/6½ oz.; 1 oz. @ 1/10 oz.; Hydrochlor. and Nitrate, 2d. oz. less.  
 Sugar of Milk, B.P., 1 cwt. @ 48/- cwt.; 7 lbs. @ 7d. lb.  
 Salpbonal B.P., 1 lb. @ 9/6 lb.  
 \*Syr. Aurant. P.B., 7 lbs. @ 8d. lb.  
 \*Syr. Easton B.P., 7 lbs. @ 1/- lb.  
 \*Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.  
 \*Ferri Phosphat. Co., 7 lbs. @ 5d. lb.  
 \*Hypophosph. Co. B.P.O., 7 lbs. @ 9d. lb.  
 \*Pruni Virg. B.P., 8 lbs. @ 7d. lb.  
 \*Rbamni, 7 lbs. @ 10d. lb.  
 \*Rhei P.B., 7 lbs. @ 7½d. lb.  
 \*Scillæ P.B., 7 lbs. @ 4½d. lb.  
 \*Sennæ P.B., 7 lbs. @ 8d. lb.  
 \*Tolut. P.B., 7 lbs. @ 7d. lb.  
 \*Tinct. Cantbaridis, P.B., 5 lbs. @ 3/- lb.; bond 6d. lb.  
 \*Tinct. Capsici B.P., 5 lbs. @ 2/8 lb.  
 \*Tinct. Card. Comp. P.B., 5 lbs. @ 1/11 lb.; bond, 6d. lb.  
 \*Tinct. Catechu P.B., 5 lbs. @ 2/1 lb.; bond, 7½d. lb.  
 \*Tinct. Chlorof. c. Morph. Comp. B.P. 1886, 5 lbs. @ 1/10 lb.; bond, 1/5½ lb.  
 \*Tinct. Cinchon. Comp. B.P., 5 lbs. @ 2/8 lb.; bond, 10½d. lb.  
 \*Tinct. Cinchon. Rub. P.B., 5 lbs. @ 2/6 lb.; bond, 10d. lb.  
 \*Tinct. Digitalis B.P., 5 lbs. @ 2/1 lb.; bond, 5½d. lb.  
 \*Tinct. Gelsem. B.P., 5 lbs. @ 2/3 lb.  
 \*Tinct. Gentianæ Comp. P.B., 5 lbs. @ 1/7 lb.; bond, 6d. lb.  
 \*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/6 lb.; bond, 6d. lb.  
 \*Tinct. Iodi B.P., 5 lbs. @ 3/2 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 3/6 lb.  
 \*Tinct. Lavandulæ Comp. B.P., 5 lbs. @ 3/- lb.; bond, 6½d. lb.  
 \*Tinct. Myrrhæ B.P., 5 lbs. @ 3/- lb.; bond, 9d. lb.  
 \*Tinct. Nucis Vom. B.P., 5 lbs. @ 2/3 lb.; bond, 5½d. lb.  
 \*Tinct. Opil B.P., 5 lbs. @ 2/7 lb.; bond, 1/11 lb.  
 \*Tinct. Opil Amom. B.P., 5 lbs. @ 3/- lb.  
 \*Opil Aquos, 5 lbs. @ 2/1 lb.  
 \*Quiniae Amm. B.P., 5 lbs. @ 2/3 lb.; bond, 11d. lb.  
 \*Tinct. Rhei Co. B.P., 5 lbs. @ 1/9 lb.; bond, 8d. lb.  
 \*Tinct. Scillæ B.P., 5 lbs. @ 2/1 lb. [1/3½ lb.]  
 \*Senegæ P.B., 5 lbs. @ 2/8 lb.; bond, 2/6 lb.; bond, 8½d. lb.  
 \*Tinct. Strophanth. P.B., 5 lbs. @ 2/10 lb.; bond, 8d. lb.  
 \*Tinct. Valerianæ, 5 lbs. @ 2/3 lb.; bond, 6d. lb.  
 \*Tinct. Valerianæ Ammon. P.B., 5 lbs. @ 2/6 lb.; bond, 8½d. lb.  
 \*Tinct. Zingib. P.B., 5 lbs. @ 3/1 lb.; bond, 6½d. lb.  
 \*Tinct. Zingib. Fortior, 5 lbs. @ 3/5 lb.; bond, 10½d. lb.  
 Treacle (Black), 5½ cwt. @ 10/- cwt.; 24 lbs. @ 2d. lb.  
 Ung. Acid. Boric. P.B., 28 lbs. @ 6½d. lb.; Flav. 28 lbs. @ 4½d. lb.  
 \*Acid. Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.  
 Gallæ P.B., 7 lbs. @ 10d. lb.; 1 lb. @ 11d. lb.  
 c. opio, 7 lbs. @ 2/2 lb.  
 Hydrargyri B.P., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9½ lb.  
 Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.  
 Hyd. Nit. Dil., 7 lbs. @ 10d. lb.  
 Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.  
 Resinæ, P.B., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.  
 Sulphuris B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.  
 Zinc Oxid. Benz. B.P., 28 lbs. @ 7½d. lb.  
 Wax, Japan, 2 cwt. @ 57/- cwt.; 7 lbs. @ 7½d. lb.  
 Zinc Oxid., Whitest and Lightest B.P., 1 cwt. @ 34/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.  
 Ziuei Sulph., pure, 1 cwt. @ 15/- cwt.; 28 lbs. @ 3½d. lb.  
 Sulphocarbolas B.P. 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.

\*Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted.

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.

Goods carriage forward; all packages free; Export cases extra.

## ALLIANCE DRUG & CHEMICAL CO., LONDON.

Office: 34 LEADENHALL STREET.

KINDLY DETACH THIS SHEET AND PLACE IT IN YOUR BUYING BOOK.



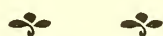


# THE CHEMIST'S CO-OPERATIVE WHOLESALE

## PRICE LIST

MAY 1909

*Will be ready in a few days.  
Send card for copy.*



*Customers will receive a copy  
as a matter of course.*

36 CAMOMILE STREET  
LONDON, E.C.

# ROBERT BLACKIE

Wholesale and Export Manufacturing Chemist.

Head Office, Mills, and Laboratory,

SHEN WORKS, Tower Bridge Road, LONDON, S.E.

## SPECIALIST.

### SPUN OINTMENTS

(Regd. Trade Mark).

And CREAMS of every kind—for HOME and EXPORT trade.

**Spun Ointments are the production of Shen Works Only.**

Private Formulæ made up and spun. All B.P. Ointments are now spun.

Wholesale Buyers and Packers will find this line well worth their attention.

### TOOTH POWDERS

For every class of Trade. The largest output in the kingdom.  
Over 50 Standard Grades. In bulk or packed in tins with customer's name and address on top.

Special design for 10 gross lots and upwards.

Private Receipts carefully attended to and executed with integrity.

### SHEN JAVA POWDERS.

IN FOUR SIZES.

Discount for large quantity.

BIJOU - 18/- per gross.

LARGE - 48/- per gross.

SMALL - 33/- „

JUMBO - 88/- „

Various Labels: Customer's name and trade-mark worked in where required.

### SHEN JAVA LEAVES.

Manufactured wholly at Shen Works, and the best Powder Paper ever offered. Sample 2 doz. assorted colours, post free 4/3

72 leaves neatly bound in fancy cover, in three colours:—white, natural and cream. 2 doz. books packed in glass-covered show outer - - 24/- per gross.

### LIME CREAMS IN ALL SIZES

With various labels and varied finish. A homogeneous Pure White Cream, which keeps indefinitely and will not go thick or separate.

**Chemical Food.**

**Cod Liver Oil Emulsion.**

**Malt Extract.**

**Toilet Powders.**

**Malt Extract and Cod Liver Oil.**

**Hair Dyes.**

**Citrate of Magnesia.**

**Hazel Foam.**

**Effervescing Saline.**

TINCTURES, ESSENCES, &c., &c., PACKED IN BOND FOR EXPORT.

General Price List on Application.

**CORRESPONDENCE CORDIALLY INVITED.**





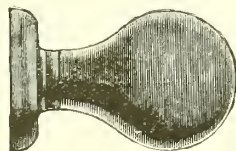
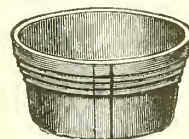
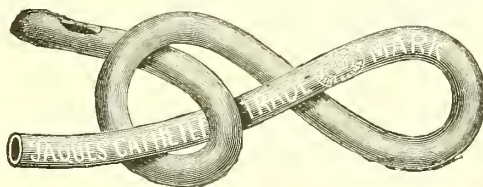
# WM. WARNE & CO. LTD.



## INDIA RUBBER

### MANUFACTURERS.

Patentees of the New Moulded Enema, &c.

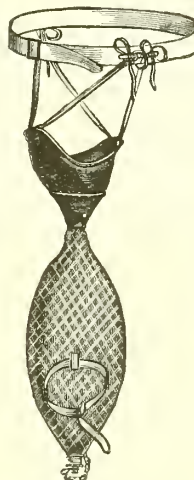
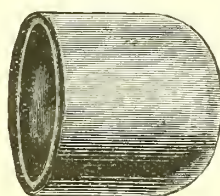


Manufacturers of every description of

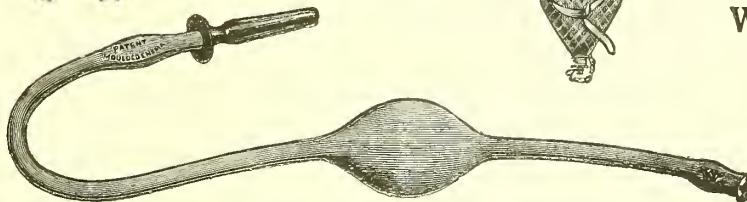
**SURGICAL,  
CHEMICAL,  
GYMNASTIC,  
DOMESTIC,  
VETERINARY,  
and  
MECHANICAL  
ARTICLES,  
SYRINGES,  
ENEMAS,**



TRADE MARKS.



**WATER BEDS  
and  
CUSHIONS,  
THREAD,  
HOSE, TUBE,  
TOBACCO  
POUCHES,  
MATS, BANDS,  
WATERPROOF  
GARMENTS,  
&c.**



Manufacturers of every description of  
**INDIA RUBBER.**

**29 GRESHAM ST., LONDON, E.C.**

**WHOLESALE AND EXPORT ONLY.**



# BAILEY'S TRUSSES

ARE THE BEST FOR SHAPE AND QUALITY. FIRST PRIZE, 1879.

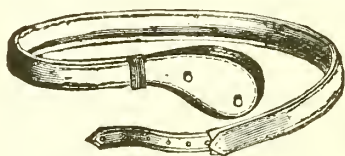


FIG. 31.

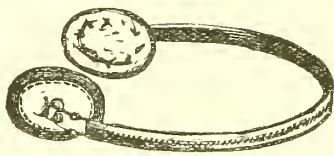


FIG. 40.

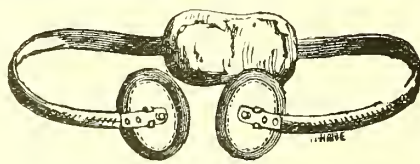


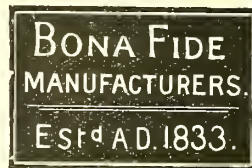
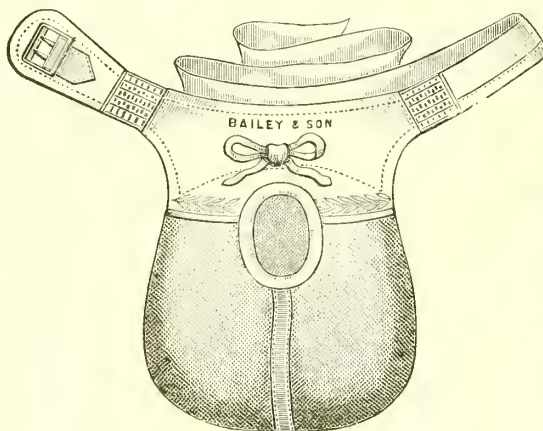
FIG. 41.

BONA FIDE MANUFACTURERS.

*Our Motto: "Experience and Expedition."*

## SUSPENSORY BANDAGES.

BAILEY'S A B C SYSTEM.



**More than Ever!!! The increasing number of Orders from Abroad PROVES what the "CHEMIST & DRUGGIST" says:**

"Every retailer knows what a worry it is to get a customer suited with a Bandage when it has to be picked out of a drawerful of all sizes. Messrs. BAILEY'S system is to mark every bandage with a number and a letter—4B for instance. By referring to the list, one finds that No. 4 is so-and-so, and the letter B indicates the size. If B is too large, then A can be supplied; if too small, then C. In the case of hydrocele, where a continually-increasing size is necessary, it will be seen how very convenient this system is for ordering. Apart from that, there is the convenience in stocking the bandages. Each one is put up in a neat slide-box, labelled at one end with the size and style, thus—

To repeat quote No. 4B Silk,

so that they are easy to pack away, easy to sell, easy to fit, while the quality is excellent, and is bringing a steadily-increasing demand."

**Try a SAMPLE CABINET (Most Saleable Assortment).**

	Per doz.		Per doz.
6 No. 1 Cotton, with tape, under-straps, Fig. 1	@ 8/9	3 No. 6 Silk, Superior Quality, with drawing-strings, Fig. 2	@ 26/6
6 No. 2 Cotton, with drawing-strings, Fig. 2...	@ 11/-	3 No. 8 Silk, with bags to button on, Fig. 3...	@ 26/6
6 No. 4 Silk, with drawing-strings, Fig. 2 ...	@ 20/-		

**Complete as above, price 33/-**

**W. H. BAILEY & SON, 38 OXFORD STREET, & LONDON, W.  
2 RATHBONE PLACE.**



# ABSORBENT LINTS

## COTTON WOOLS, GAUZE TISSUE,

WHITE & GREY BANDAGES,  
SANITARY TOWELS, &c.

GOODS SUPPLIED IN VARIOUS QUALITIES.      SAMPLES AND PRICES ON APPLICATION.  
WHOLESALE ONLY.



*Owing to the fact that every process of manufacture, from the raw cotton to the finished article, is conducted on our own premises, we are able to exercise a complete control over the quality and uniformity of our productions.*

## VERNON & CO., LTD

A B C CODE, 5th EDITION.  
TEL. ADD.: "LINT PRESTON."  
TEL. NO.: 323 PRESTON.

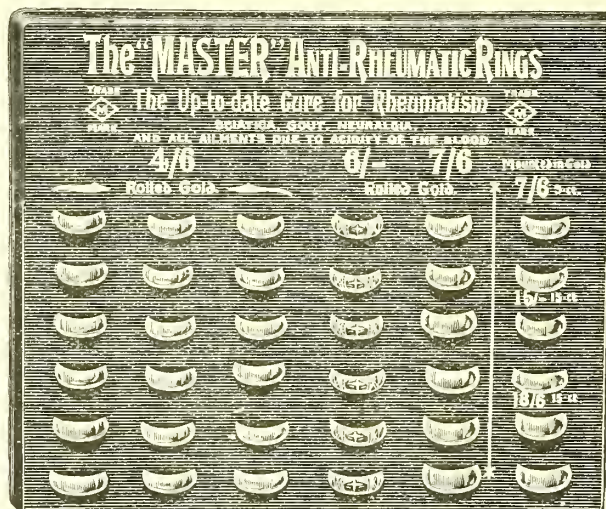
**PENWORTHAM MILLS, PRESTON,**  
*Lancs.*

*Agent: Thomas J. Sanderson, 9/10 Fenchurch Street, London, E.C.*

*Tel. No.: 2235 Central*

# THE "MASTER" ANTI-RHEUMATIC RINGS.

THE  
RINGS  
MAY BE  
WORN  
ON  
ANY  
FINGER.



RETAIN  
THEIR  
POWER  
FOR ANY  
LENGTH  
OF  
TIME.

**SPECIAL OFFER.**—This handsome plush-covered, gold-lettered showstand, containing three dozen assorted rings, as illustration, retailing at £12 4 0.

Price complete ... .. £6 0 0

	Covered in rolled gold.		9-carat gold, stamped.		15-carat gold, stamped.		18-carat gold, stamped.	
	Retail price. each.	Trade price. each.	Retail price. each.	Trade price. each.	Retail price. each.	Trade price. each.	Retail price. each.	Trade price. each.
No. 1501. Ordinary width...	4 6	2 6	7 6	4 6	15 0	9 6	21 0	13 6
„ 1502. Belcher shape ...	7 6	4 6	10 6	6 6	18 6	11 0	24 0	15 0
„ 1503. Chased ... ..	6 0	3 6	9 0	5 6	18 6	11 0	24 0	15 0

No. 1501, covered in rolled gold, is the best selling line.

**SPECIAL PRICE, per doz., 24s. 0d.**

With each DOZEN RINGS we supply, gratis, a handsome plush-covered showstand. Also a supply of neat booklets with full descriptive matter. Regulation size measurement cards free.

N.B.—Rings exchanged for other sizes if required. No license is required for the sale of these rings.

**Try our well-known "EMPIRE" Brands of Goods.**

**BRIEF LIST OF GOOD SELLING LINES.**

ATOMIZERS, Nasal and Throat.  
BANDAGES, India-rubber.  
BELTS, Lady's and Gent's.  
CLINICAL THERMOMETERS.  
COMBS, Horn and Vulcanite.

CUSHIONS, Air and Water.  
ENEMAS, all kinds.  
GLYCERINE SYRINGES.  
HOT WATER BOTTLES.  
NASAL DOUCHES.

STOCKINGS, KNEE CAPS,  
TRUSSES, all kinds. [etc.  
VAGINAL DOUCHES,  
WATER BEDS AND SHEET-  
INGS.

N.B.—5 per cent. discount allowed for prompt cash off above and all list prices. CARRIAGE PAID on Orders of £2 and upwards to any town in the United Kingdom.

Write for new Illustrated Price List, now ready, post free.

**OUR GOODS ARE RIGHT AND PRICES LOW.**

**BURGE, WARREN & RIDGLEY, LIM., 91 & 92, GT. SAFFRON HILL, LONDON, E.C.**

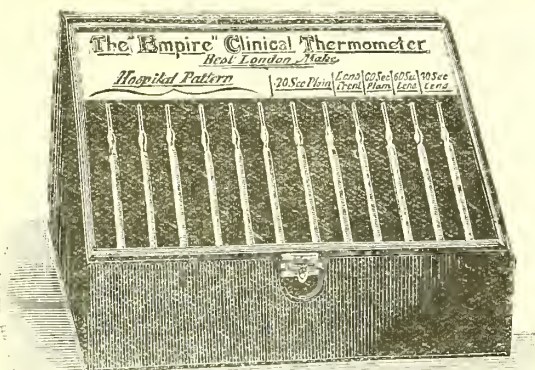


# THE "EMPIRE" CLINICAL THERMOMETERS.

Guaranteed Best London Make from Well-seasoned Tubes.

## PRICES.

"Hospital" Pattern, in metal case ... Per doz.	9 0
"Hospital" Pattern, in 3 dozen lots ... Per doz.	8 6
"Hospital" Pattern, in 6 dozen lots ... Per doz.	8 0
"Hospital" Pattern, lens front ... Per doz.	13 0
Certificate of accuracy for any Thermometer ... Per doz.	5 0



## PRICES.

60 second, plain ... Per doz.	12 0
" lens front ..	16 0
30 second, plain ..	13 6
" lens front ..	20 0
Certificate of accuracy verified by Kew Observatory ... Per doz.	15 0

Each Thermometer is packed in a specially designed card box with descriptive label on lid. We accept all risk from breakage in transit if advised by return of post.

☛ A Glass-topped Showcase, as above illustration, GIVEN FREE with orders for 3 dozen Thermometers.

# THE "EMPIRE" HOT WATER BOTTLES

GUARANTEED FOR 2 YEARS.

☛ Both "heavy" and "light" bottles are made from ☛  
best quality rubber.

SIZES.	HEAVY.	LIGHT.	PLUSH COVERS
	s. d.	s. d.	s. d.
6 x 8 inch ...	2 8 each	2 5 each	0 8 each
6 x 10 " ...	3 0 " "	2 8 " "	0 8 " "
6 x 12 " ...	3 5 " "	3 1 " "	0 10 " "
8 x 10 " ...	3 8 " "	3 2 " "	0 10 " "
8 x 12 " ...	4 2 " "	3 7 " "	0 11 " "
8 x 14 " ...	4 9 " "	4 2 " "	0 11 " "
10 x 12 " ...	4 9 " "	4 2 " "	0 11 " "
10 x 14 " ...	5 4 " "	4 10 " "	1 0 " "
12 x 14 " ...	6 2 " "	5 7 " "	1 2 " "

EACH ONE IN A NEAT PAPER BAG WITH DIRECTIONS FOR USING.

For orders of two dozen bottles assorted we will put tablet with customer's name on free of charge.

N.B.—5 per cent. discount allowed for prompt cash off all above prices.



Fig. 955.

TOP HANDLE.

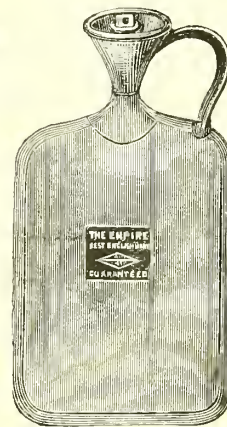


Fig. 957.

SIDE HANDLE.

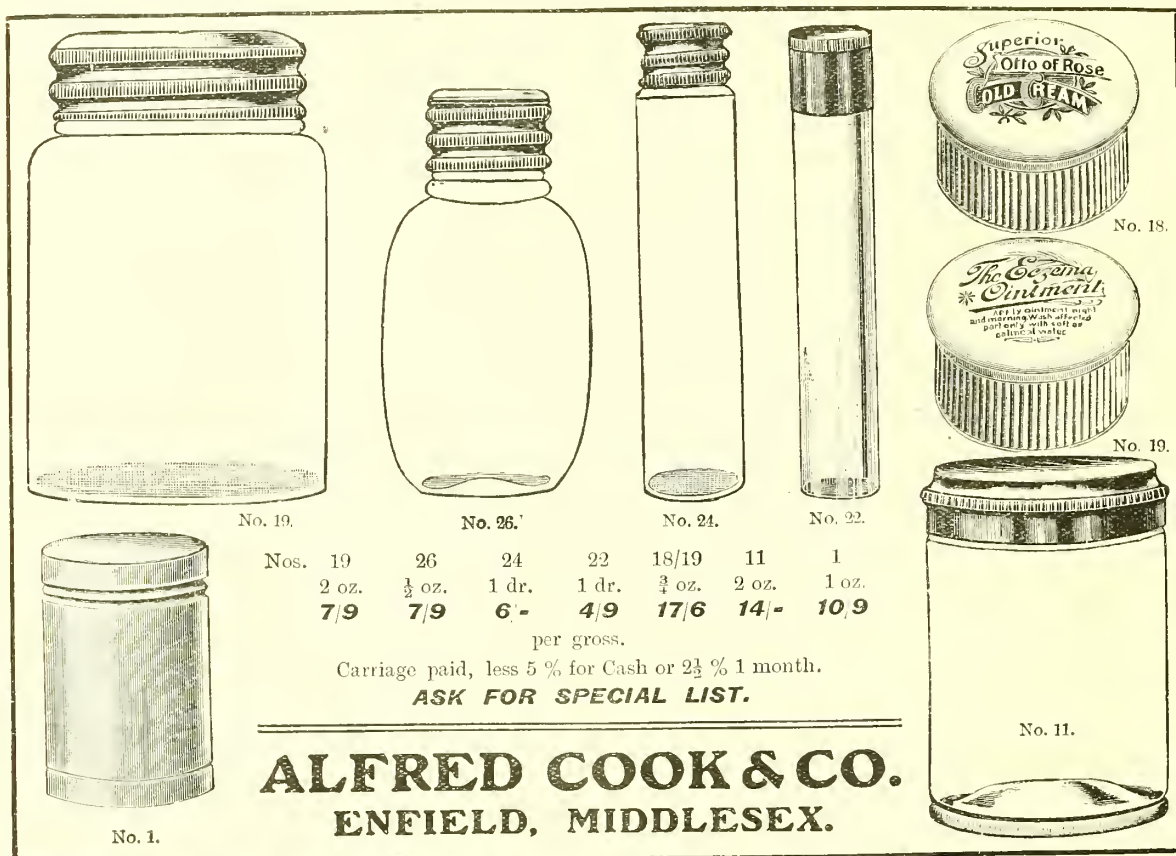
Carriage paid on Orders of £2 and upwards to any Town in the United Kingdom.

Write for NEW Illustrated Price List, now ready, post free.

OUR GOODS ARE RIGHT AND PRICES LOW.

# BURGE, WARREN & RIDGLEY, Ltd.

91 & 92 Great Saffron Hill, London, E.C.



Nos.	19	26	24	22	18/19	11	1
	2 oz.	$\frac{1}{2}$ oz.	1 dr.	1 dr.	$\frac{3}{4}$ oz.	2 oz.	1 oz.
	7/9	7/9	6/-	4/9	17/6	14/-	10/9

per gross.

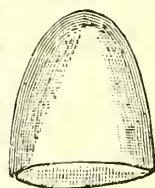
Carriage paid, less 5 % for Cash or  $2\frac{1}{2}$  % 1 month.

**ASK FOR SPECIAL LIST.**


**ALFRED COOK & CO.**  
ENFIELD, MIDDLESEX.

# RENDELL'S

## SOLUBLE QUININE PESSARIES.



THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in **RED INK**, are upon each box thus:

Registered  
Trade Mark,   
without which  
none are genuine.  
No. 182,688.

*W. J. Rendell*  
No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

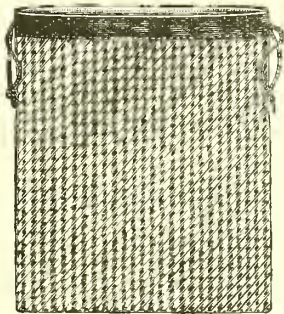
### IMPORTANT NOTICE AND CAUTION.

Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

**W. J. RENDELL,**  
INVENTOR AND SOLE MAKER,  
15 CHADWELL STREET, CLERKENWELL, LONDON, E.C.



## TOOGOOD'S SPONGE BAGS.



### SUPER QUALITY CHECK.

Nos. 1 2 3 4 5 6 7 8  
5/6 6/6 8/3 10/3 11/3 14/- 18/- 20/- doz.

### SPECIAL QUALITY CHECK.

Nos. 1 2 3 4 5 6 7 8  
4/- 4/6 5/6 6/9 8/- 10/- 12/- 14/- doz.

### No. 2140. DICE CHECK.

Nos. 1 2 3 4 5 6  
4/- 4/5 5/3 6/6 7/- 9/- doz.

### THE "CLIMAX."

Proofed on both sides.

Nos. 1 2 3 4 5 6 7 8  
8/6 10/- 12/- 15/- 18/- 20/- 23/- 26/- doz.

## SPONGE WRAPPERS.

### SUPER QUALITY CHECK.

Without Pocket.

18 x 18 20 x 20 22 x 22 24 x 24  
15/- 18/- 20/- 23/- doz.

### SUPER QUALITY CHECK.

With Pocket.

18 x 18 20 x 20 22 x 22 24 x 24  
18/- 21/- 24/- 27/- doz.

### THE "CLIMAX."

Proofed on both sides. Without Pocket.

20 x 20 22 x 22 24 x 24  
24/- 29/- 33/- doz.

### THE "CLIMAX."

Proofed on both sides. With Pocket.

20 x 20 22 x 22 24 x 24  
28/- 34/- 40/- doz.

Above Prices are subject to 7½ per cent. 1 month.

**WILLIAM TOOGOOD, LTD.**  
77 SOUTHWARK STREET, LONDON, S.E.

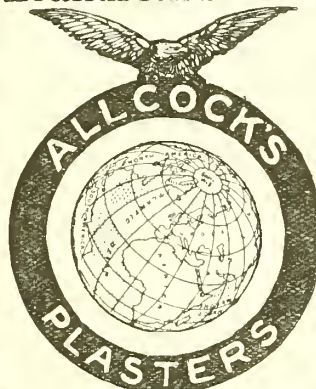
The Original and only Genuine

## Allcock's POROUS PLASTERS

A REMEDY OF 60 YEARS' STANDING.

Allcock's Plasters  
Allcock's Corn and  
Bunion Plasters  
Brandreth's Pills

*The  
Three  
Reliables.*



A HANDSOME  
SHOWCARD  
will be sent  
free of cost  
and post paid  
on application.

ALLCOCK . . .  
MANUFACTURING  
COMPANY . . .  
22 Hamilton Sq.,  
Birkenhead.

"Sold all round the World."

THE

## LIVERPOOL LINT CO.

MARK STREET MILLS,  
NETHERFIELD ROAD NORTH,  
LIVERPOOL,

MANUFACTURERS OF

LINTS,  
BANDAGES,  
COTTON WOOLS,  
SURGEONS' TOW,  
CARBOLIZED TOW,  
SPLINT PADDING,  
WADDINGS, &c., &c.

As supplied to Home and Foreign Governments.

"IMPERMIETTE" (Waterproof).  
"IMPERMIETTE" BED SHEETING.  
"HEALTH" CHEST PROTECTORS.  
"VULNOPLAST."

ABSORBENT  
TISSUE.



FIRST FIELD  
DRESSINGS.

Telegrams :

"LINT LIVERPOOL."



**SELL AT SIGHT.**

# DR. NELSON'S MEDICATED LOOFITE SOCKS.

Impregnated with  
Boracic Acid, Pine Oil, &c.  
Patented.

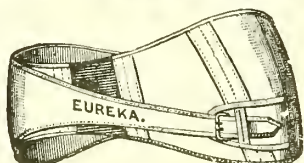
ONCE WORN, ALWAYS WORN.

Now on the P.A.T.A. 4/- per dozen, 46/- per gross. Retail, Face Value, 6d. per pair.

**JOHN MORGAN DAVIS & SONS, 89 Bishopsgate Without, LONDON, E.C.**

ESTABLISHED 1838.

## VINCENT WOOD



The **LARGEST** Bona-fide Manufacturer in the Trade for

Trusses. Abdominal & Supporting Belts.

Hand Woven and Spiral Elastic Hosiery.

Sponge Bags, &c.

Hot Water Bottles and Covers.

Suspensory Bandages.

Elastic Web Bandages.

Chest Expanding Braces.

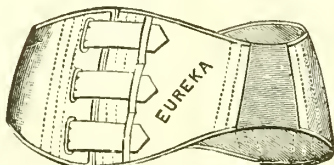
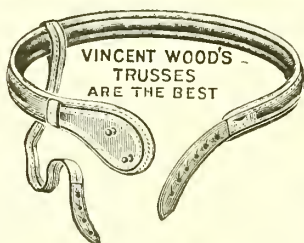
Enemas and Surgical

Appliances generally.

Sole Agent for the  
"EUREKA" CRÊPE  
VELPEAU BANDAGES.

Gold Medal Awarded  
FRANCO-BRITISH  
EXHIBITION.

Send for List.

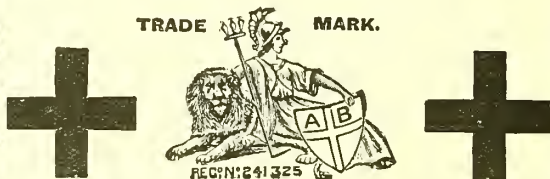


**4 Albion Place, Blackfriars Bridge, LONDON, S.E.** Freehold Works, Carlton, Nottingham.

Telephone—  
2173 Hop.

## SURGICAL DRESSINGS.

TRADE MARK.



**ABSORBENT AND ANTISEPTIC**

**COTTONWOOLS,**

**BANDAGES,**

**LINTS,**

**GAUZES,**

**CELLULOSE,**

**WOOLIOSE,**

**GAUZE TISSUE (as Gamgee),**

**COTTON PADS,**

**SPONCES, &c., &c.**

**SPECIAL OFFERS IN CHEMISTS' SUNDRIES.**

**BATH CLOVES,**

**BODY BELTS,**

**SUSPENSORY**

**BANDAGES,**

**SANITARY TOWELS,**

**&c., &c.**

**"VICTORIA" CHERRY TOOTH PASTE.**

All Ingredients Pure and the Best Quality Obtainable.

	Per doz.	Sell at
Small Round ...	33	6d.
Large " ...	6/3	1/-
Square " ...	3/9	7½d.
Oblong " ...	66	1/-

Will keep in all Climates.

Apply for samples, stating quantities required, to

**ARTHUR BERLINER, SURGICAL DRESSING MANUFACTURER,**

Nat. Tel.—507 London Wall.

Telegrams—"Renilreb London."

(Established 1850.)

**15 & 17 WORSHIP ST., and TABERNACLE ST., LONDON, E.C.**

TRIUMPH OF  
ELECTRO-MEDICAL SCIENCE.

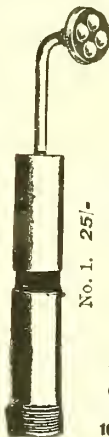
**The NATURAL**  
Curative Electrical  
Massage Instruments

The following complaints may be enumerated in which the use of the "NATURAL" will afford relief or effect a permanent cure in all cases:—  
Rheumatism, Sciatica, Lumbago, Gout, Backache, Muscular Rheumatism, Stiff Neck, Nasal Catarrh, Sore Throat, Cramp, Cold Feet, Neuralgia, Toothache, Falling Hair, Nervous Exhaustion.

**JONES & KLEISER**

SOLE AGENTS,

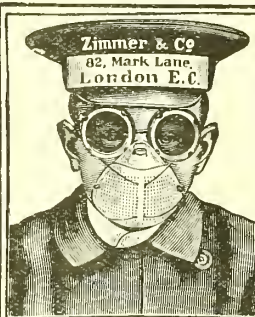
10 Ironmonger Lane, London, E.C.



No. 1. 25/-



No. 2. 63/-



Aluminium Respirator "Z" & Goggles.

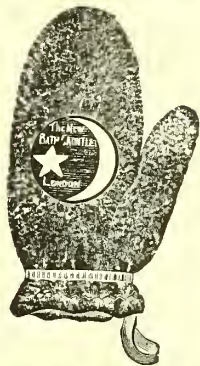
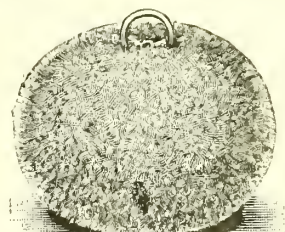
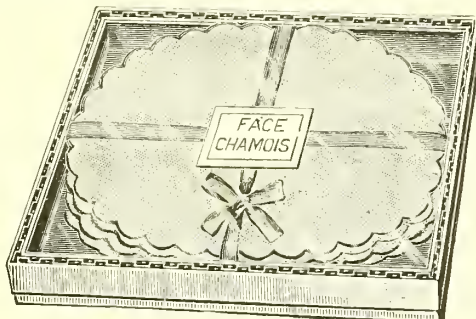
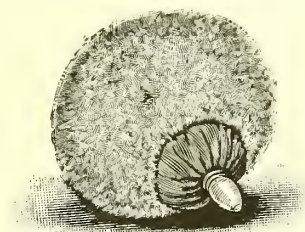
**ZIMMER & CO., 82 Mark Lane, London, E.C.**

For  
Safety  
Appliances  
of all  
descriptions  
apply to:



Valve Respirator.



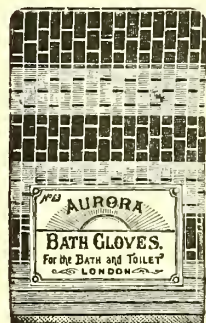


## A FEW ILLUSTRATIONS

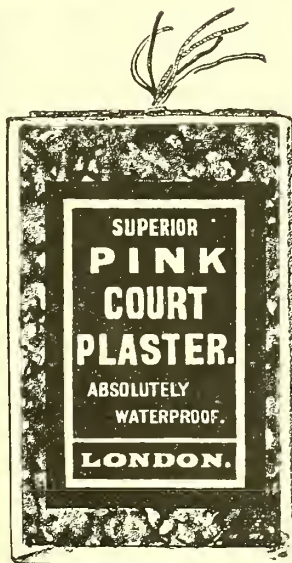
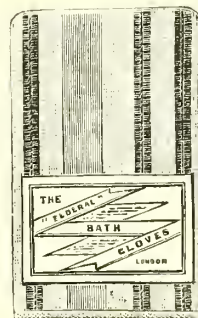
FROM THE

### Fully Illustrated Price List of our Manufactures.

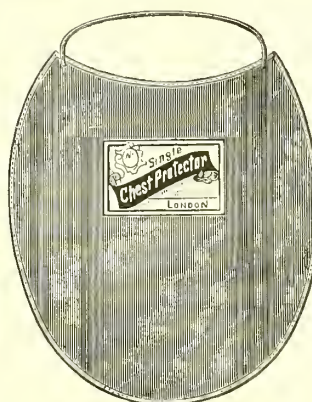
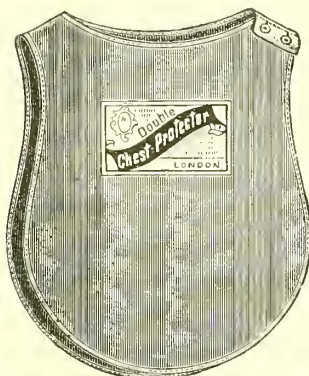
Dealers and Shippers should write us for a copy, as we make many articles in  
Druggists' Sundries that are not shown here.



Facsimile of box of 1 dozen.



1d. Case, actual size.



# SOLPORT BROS.,

WHOLESALE AND EXPORT MANUFACTURERS,

**188 & 190 Goswell Road,  
LONDON, E.C.**

Telegrams—  
"SOLPORT LONDON."

Telephone—  
4363 CENTRAL.

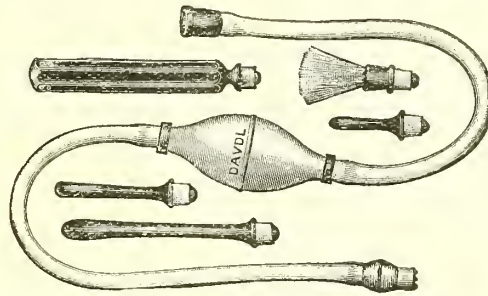






# DAYVOL'S HOUSEHOLD SYRINGES.

Recommended by the



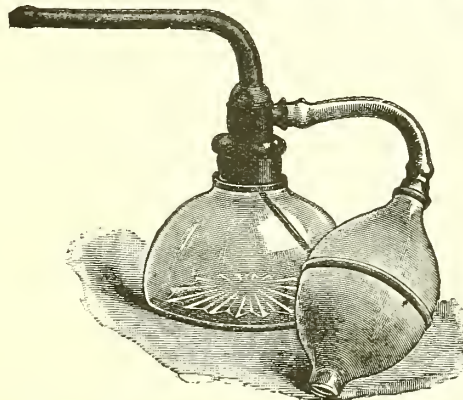
Medical Fraternity.

Made of Pure Rubber with Hard Rubber Pipes. Are conceded to be the best, cleanest, and most perfect Syringes on the market, as they have no screw threads or washers to get out of order and thus become defective; nor any metal fittings to become corroded, and which are so dangerous in use.

The Valves are secured and cannot be lost, therefore ensuring efficiency at all times.

# DAYVOL'S MAGIC ATOMIZERS.

CONTINUOUS



SPRAY.

For the Toilet; also for Throat and Nasal Applications, and employment in the Arts. Made with Metal and Hard Rubber Tubes. Are unequalled for Quality, Efficiency, and Durability, great care being taken in their manufacture to have a first-class instrument in every respect.

We Manufacture a Complete Line of *Fountain and Bulb Syringes*  
in the various grades, and

## FINE RUBBER GOODS GENERALLY

For the Druggists' and Surgical Trade.

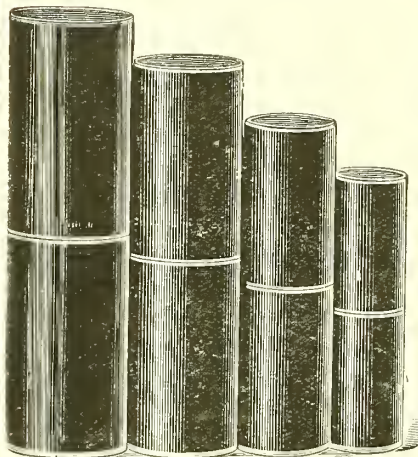
**DAYVOL RUBBER COMPANY,**  
**PROVIDENCE, R.I., U.S.A.**

WRITE FOR NEW ILLUSTRATED CATALOGUE.





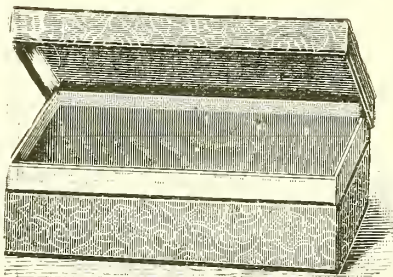
Patent D Fastener Folding Case.



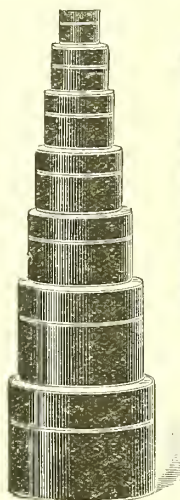
Purple Shouldered Bottle Cases.



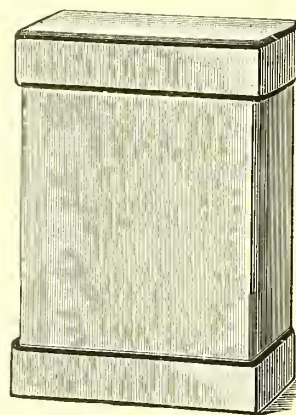
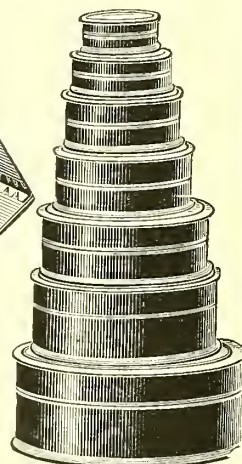
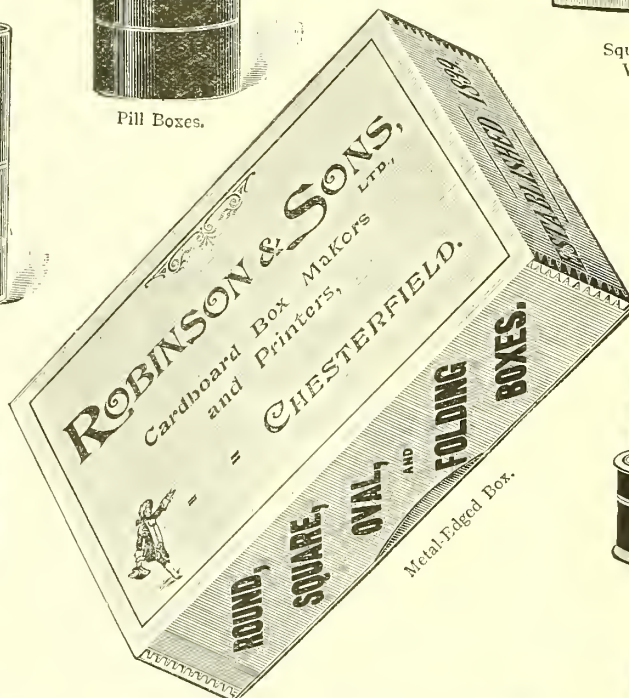
Dispensing Powder Slide.

Round Drum Shape  
Violet Powder.

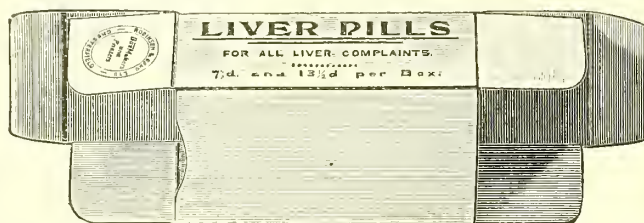
Seidlitz Powder Box, Shouldered and Hinged.



Pill Boxes.

Round Bird Pattern  
Fullers Earth.Square Pillar-shaped  
Violet Powder

Flanged Pill Boxes.



Tuck End C Fastener Folding Case.

Double Lipped  
A Fastener.

OUR PATENT "SAFETY" POSTAL BOX should be seen and used by all whose business makes it necessary to send quantities of fragile or other goods through the post.

If you require a Cardboard Box for anything, please write for Samples and Prices.



# SURGICAL DRESSINGS

ABSORBENT COTTON LINTS, FLAX LINTS, ROLL BANDAGES, COTTON WOOLS, GAUZE,

MANUFACTURED BY

**ROBINSON & SONS, Ltd.,**

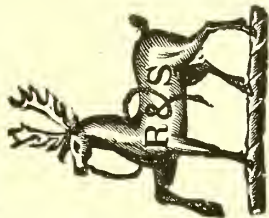
Cotton Spinners, Weavers,  
and Bleachers,

WHEAT BRIDGE MILLS, CHESTERFIELD, & 55 FANN STREET, ALDERSGATE STREET, LONDON, E.C.

"GAMGEE

ESTABLISHED 1839.

TISSUE."



REGISTERED.

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**DRESSING**

(PATENT).

And all kinds of

**ANTISEPTIC**

**DRESSINGS,**

**SANITARY**

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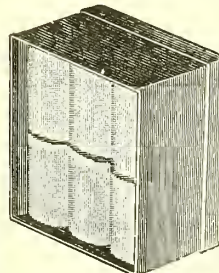
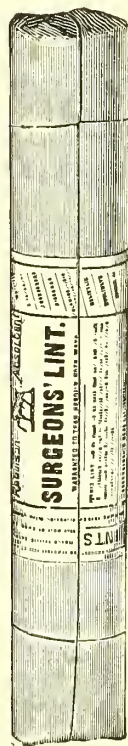
for Ladies.

Speciality:—

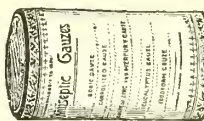
**MENE**

**TOWELS.**

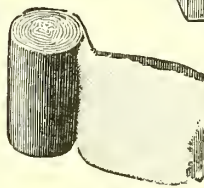
We are the only Surgical Dressing Manufacturers in the World who Spin, Weave, Bleach, and Manufacture from the Raw Cotton.



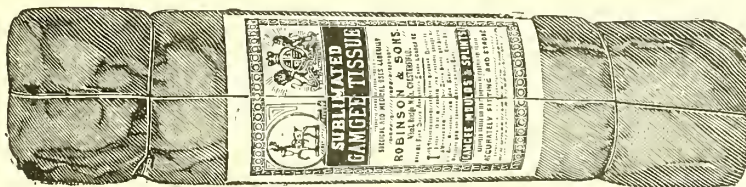
Absorbent Bandages in Cartons



Air-tight Case Antiseptic Gauze

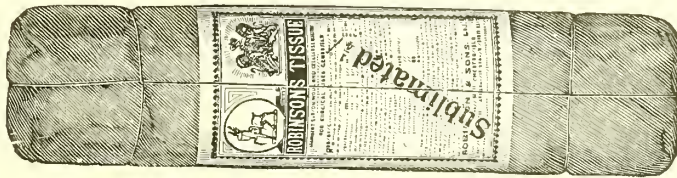


Absorbent Cotton in Tissue Paper.



Prices  
and  
Free Samples  
on  
Application.

ASK FOR  
ROBINSON'S  
"STAG" BRAND  
WHEN  
ORDERING  
FROM THE  
WHOLESALE  
HOUSES.



Absorbent Cotton in Cartons.

# GLASS BOTTLES.

*The attention of COLONIAL & other BUYERS is invited to our*

## AERATED WATER BOTTLES

Codds, Screw and Swing Stoppers  
Cork and Crown Cork Mouths

of which we send a large quantity abroad. They are strong, well blown, & most satisfactory in use.

. . . ALSO WE RECOMMEND OUR . . .

### WINCHESTERS

In Pale Green, Blue, and  
Amber Colours. Many sizes.  
Plain and ground stoppered.

### KILNER POISONS

Our well-known make. At-  
tractive style. All useful sizes.  
In Blue and Amber Colours.

### DISPENSING

All shapes. Many sizes and  
graduations. In nice light  
Blue Tint.

### *MACHINE AND HAND-MADE BOTTLES*

*For Fruit, Jelly, Jam, Marmalade, Sweets, Soup, Pickles, Sauces, Milk, &c.*

MOST CAREFUL ATTENTION GIVEN TO PACKING AND ALL DETAILS.

Illustrated Catalogue and Prices on application.

## KILNER BROTHERS, Ltd.

No. 3 G.N. Goods Station, KING'S CROSS, LONDON.



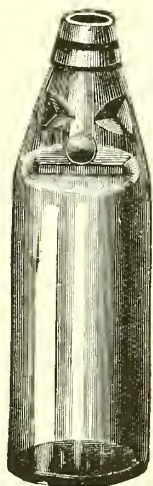
# E. BREFFIT & CO., Ltd.

The Aire and Calder Glass Bottle Works.

83 UPPER THAMES STREET,  
LONDON, E.C.

Telegrams: "Breffits London."

Telephone: Bank 843.



## GLASS BOTTLES,

MACHINE AND HAND MADE  
FOR  
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CONFECTIONERY,  
PRESERVES, JAMS, &c.  
CHEMISTS' BOTTLES for  
DISPENSING, PATENTS,  
CITRATES, POMADES,  
POISONS, EMBROCATION,  
PERFUMERY.

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PRICE LISTS ON APPLICATION.

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T.A.: "Breffits Castleford."

London Warehouses—

SOUTH WEST INDIA DOCK, E.

T.N.: East 1487.

& BISHOPSGATE GOODS STATION, E.C.

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## F. H. TAYLOR & SONS.



## F. H. TAYLOR & SONS.

NEW WHARF ROAD, KING'S CROSS, LONDON, N.

ESTABLISHED 1875.

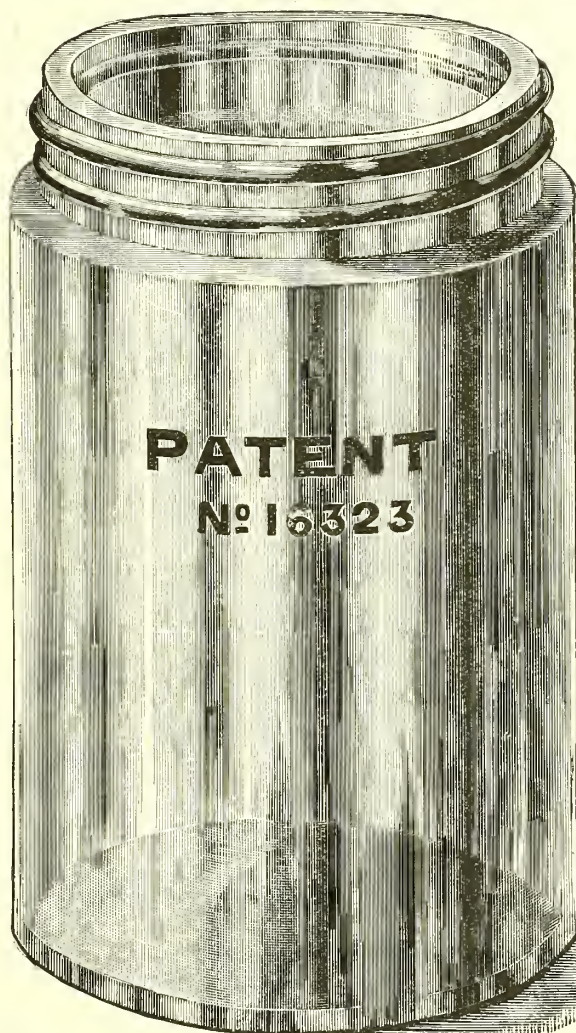
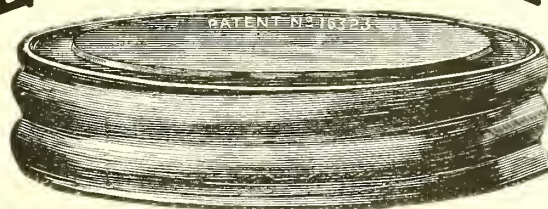
TELEPHONE: 4488 CENTRAL.



Telegraphic Address:  
"FISH LONDON."  
ABC Code,  
4th & 5th Edition.

Telephone Number:  
5924 HOLBORN  
(3 lines).

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Our Patent  
Screw-capped  
Up-to-date

## MALT JARS

*Round & Square.*



All sizes in Best  
Amber & White Flint  
Glass are now being  
used by all the Lead-  
ing Houses.



**LARGE STOCKS  
ALWAYS ON HAND  
TO MEET IMME-  
DIATE DEMANDS.**



**SAMPLES & PRICES  
ON APPLICATION.**



**ILLUSTRATED  
CATALOGUES  
FREE.**

*Also Manufacturers*

— OF —

Medicals,  
Perfume Bottles,  
Screw-capped  
Pomades,  
Show Glasses,  
Druggists' Sundries  
Shop Bottles & Jars

WITH

*Vitrified Labels.*



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**of every description.**



*Registered Offices & Showrooms:*

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GLASGOW.**

**406 CORN EXCHANGE BDCS.  
MANCHESTER.**

*Also at—*

**LEEDS & BELFAST.**



**American Patent  
for this closure  
for sale.**

# GARDNER'S Patent "Rapid" SIFTERS AND MIXERS

WILL SUCCESSFULLY TREAT  
EVERY KIND of POWDER.

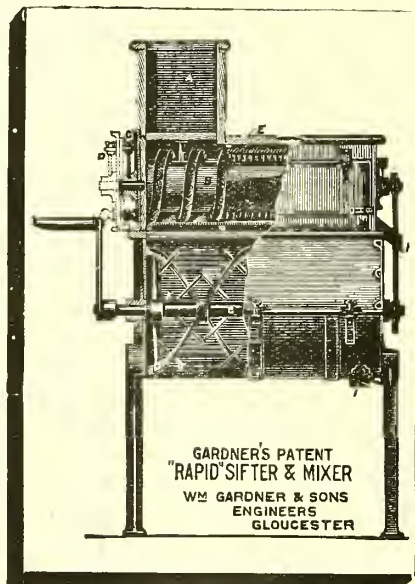
OVER **2,900** WORKING ON

Baking Powder  
Custard Powder  
Tooth Powder  
Seidlitz Powders  
Condition Powders  
Sherbet, Kali  
Cements, Ochres  
Cattle Foods  
Infants' Foods  
Egg Powders  
Magnesia, Borax  
Ice Cream Powders  
Toilet Powders  
India-Rubber Powders

Soap Powders  
Starch Powders  
Blue, Manures  
Spices, Sugar  
Self-Raising Flour  
Icing Sugar  
Cake Flour  
Liquorice Powders  
Blended Flours  
Fancy Flours  
Confectionery  
Perfumes  
Plate Powders  
Cravy Salt

Dry Colours  
Sausage Seasonings  
Snuff, Pepper  
Table Salts  
Health Salts  
Cocoa, Sulphur  
Coffee, Chicory  
Blanc-Mange  
Powders  
Sand, Clay, Earth  
Pig Powders  
Sheep Dip  
Pudding Powders  
Fruit Crystals

and Similar Kinds of Powders.



## They Contain the Following Important Features:

1. Will break down and sift lumps formed in powders, and are practically dustless and noiseless in working.
2. Ingredients can be placed indiscriminately into the hopper without previous mixing.
3. Foreign and other matter too large to pass through the sieve is automatically removed from sifting chamber by our patent overtail process, without injury to brush or sieve.
4. Brush is fitted in slide bearings, so can be accurately regulated; and being interchangeable, Machines may be fitted with two classes: one to break down lumps to powder and sift, the other to sift only and pass lumps with foreign matter through patent overtail spout; only one of these, however, is supplied unless specially ordered and charged extra. *The latter has the gentlest possible action, and removes foreign matter, insects, lumps, &c., from flour, powders, &c., without injury to same.*
5. A door being fitted over mixing chamber, the combined Machine, as illustrated above, can be used as a mixer only, if desired, without sifting, and essences or liquids can be added without injuring or choking brush or sieve.
6. Sieve being instantly removable, any meshes can be used and extra sieves supplied if desired at an extra cost.
7. Smallest possible wear and tear, and bearings, being outside, are lubricated with ease and without fear of lubricant coming in contact with the powders, as is the case with other mixing machines.
8. Quickly taken apart for cleaning, most sizes have bottom of mixing chamber hinged, so every part can be got at; then when using a Machine for a variety of powders there is no fear of one mixture contaminating that which follows.

Send us samples of your powders, and we will recommend our most suitable Machines.

**WM. GARDNER & SONS**  
(GLOUCESTER), LIMITED,

*Specialists in Sifting and Blending Machinery,*

Cables & } "GARDNER, GLOUCESTER."  
Telegrams: }  
Nat. Telephone No. 117.  
Codes Used: A-1 & A.B.C. (4th & 5th Editions).

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*London Showrooms:*  
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J. LENNARD, 364 Little Collins Street, Melbourne.  
J. LENNARD, Commercial Union Chambers, Brisbane.

J. LENNARD, Cuba Street Extension, Wellington, N.Z.  
OAKES & CO., No. 9 Broadway, Madras, India.  
H. ROBERTS & CO., 7 Via Giuliani, Milan, Italy.



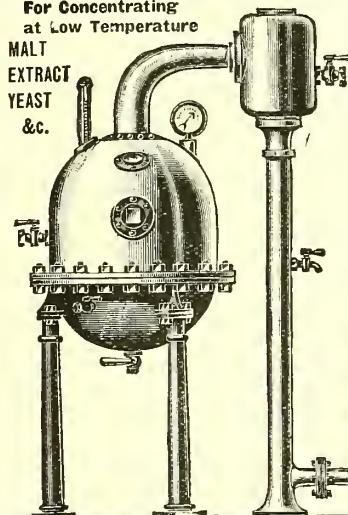
**E. BENNETT & SON, LTD.**

THE ALDGEATE EAST COPPER  
AND ENGINEERING WORKS,  
7 ALDGEATE EAST CHAMBERS, LONDON, E.  
*Manufacturers of Laboratory Plant,*

**VACUUM PANS**

For Concentrating  
at Low Temperature

MALT  
EXTRACT  
YEAST  
&c.



CONDENSERS  
VACUUM PUMPS

DESIGNS & PRICES  
ON APPLICATION.

**STEAM PLANT.**

MANUFACTURERS OF  
TILTING BOILING PANS,  
STILL HEADED PANS,  
POT STILL, HOT PLATES, &c., &c.

PATENT AUTOMATIC STILL, delivering 6 pints  
aqua dist. per hour, 38s. 6d. Cost of production, three  
farthings per gallon.

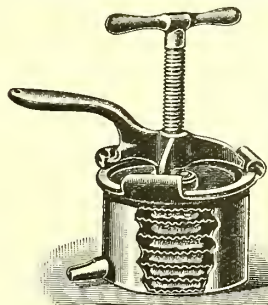
Made in sizes to distil from 6 pints to 7 gallons per hour.  
HUNDREDS NOW IN USE. LISTS FREE

**Brown & Son, Charlotte Street,**  
KING'S CROSS, LONDON, N.

**The "Hercules" Patent Meat Juice Press**

More economical and hygienic than others. Nearly the whole of the juice in raw meat—about 50%—can be obtained cold, i.e., about double the quantity obtainable by any other press. Only half the quantity of meat, therefore, being necessary, the saving is very considerable. No pressing cloth being used and all parts in contact with the meat being of pure tin or nickel-plated, these Presses are unsurpassed from a hygienic point of view. To be obtained from all Chemists. (Wholesale: S. Maw, Son & Sons, Aldersgate St.; Allen & Hanburys, Ltd., 48 Wigmore St., W.; R. J. Reuter, 5-7 Denman St., London, W.; Barclay & Sons, Ltd., 95 Farringdon St.; and Arnold & Sons, W. Smithfield, London, E.C.) Also from Messrs. J. Barker & Co., Ltd., Kensington; Benetink & Co., Ltd., Cheapside; Farrow & Jackson, 8 Haymarket; Harrod's, Ltd., Brompton; G. Kent, 195-201, High Holborn; J. Shoolbred & Co., Tottenham Court Road; Wm. Whiteley, Ltd., Westbourne Grove; Army & Navy, and Civil Service Stores, Spicers & Pond, &c.

Wholesale: The Sole Agents of the "Hercules" Patent Meat Juice Press,  
85 Queen Victoria Street, London, E.C.



CHEMISTS' EXHIBITION, 1909. STAND NO. 19a.

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Manufacturers of every description of

**PHARMACEUTICAL  
MACHINERY**

TABLET MACHINES.  
WATER STILL.  
CAPSULE MACHINES.  
DRUG MILLS.  
GRANULATORS.  
POT MILLS.  
MASS MIXERS.  
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VACUUM DRIERS  
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SOLE AGENTS, **THOMPSON & CAPPER,**  
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**LIQUID FILLING MACHINES  
OF ALL DESCRIPTIONS.**

to suit  
every need.

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PATENT  
FILLING  
MACHINE CO.**

33 DEANE RD.  
BOLTON.

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Small size, 3 oz. bottle, in case.  
Medium " 7 " " "  
Large " 16 " " "

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Thos. Christy & Co., 4-12 Old Swan Lane,  
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F. Newbery & Sons, Ltd., 27 Charterhouse  
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Roberts & Co., 76 New Bond Street, W.



# BENNETT, SONS, & SHEARS, LTD.

Telegrams:  
"CUPRITE  
LONDON."

*Engineers and Coppersmiths,*

Telephones:  
790, 794  
HOLBORN.

**FARRINGTON WORKS, SHOE LANE, LONDON, E.C.**

MANUFACTURERS OF

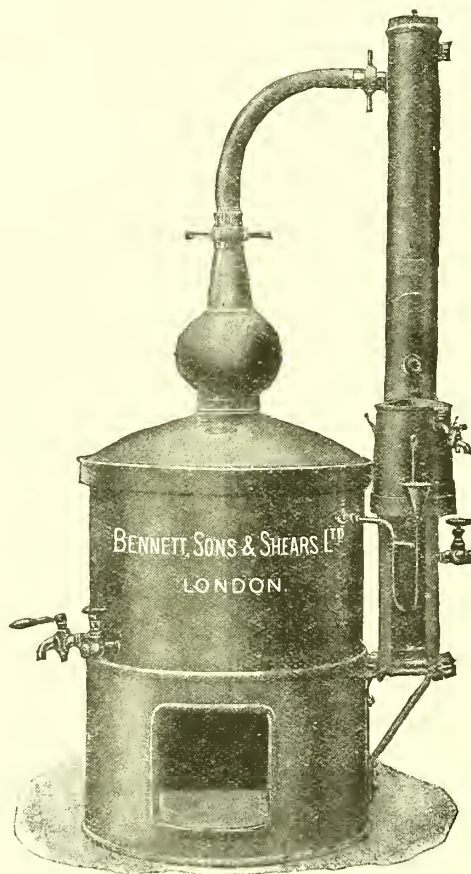
## ESSENTIAL OIL STILLS

For extracting Oil from Leaves, Seeds, Bark, Herbs, and for re-distilling the Oil when separated.

The illustration represents a Copper Still with removable Copper Dome, with water Seal Joint, fitted with a perforated False Bottom and Steam Coil below, also a perforated Steam Coil for free steam; "Ideal" Patent Copper Condenser and Separator. All mounted on a Portable Stand, complete and self-contained for Colonial use.

**PLANT**  
for  
Complete  
Essential Oil  
Distilleries.

Contractors to —  
H.M. Government.

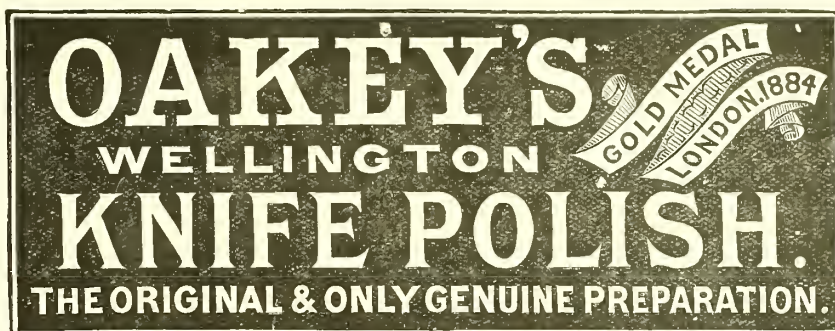


**Lavender Stills.**  
**Mint Stills.**  
**Sandal Stills.**  
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**Rectifying Stills.**

Established over  
100 YEARS.

**Farrington Works, Shoe Lane, LONDON, E.C.**





PREPARED EXPRESSLY FOR OAKLEY'S KNIFE BOARDS,

All Patent Knife Cleaning Machines, and Rubber and Buff Leather Knife Boards.

Knives constantly cleaned with it have a brilliant polish equal to new cutlery, and are not injured as they are when common imitations of Oakey's Knife Polish or when Bath Brick is used.

Canisters, 1d., 2d., 3d., 6d., 1s., 2s. 6d., 4s. each.

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The best and cheapest articles ever introduced to the Public, for expeditiously and brilliantly polishing Knives. Made in all sizes. Oakey's "Wellington" Knife Polish should be used with the boards.

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The best and cheapest article for cleaning and polishing, without waste or dirt, Silver, Electro-Plate, Britannia Metal, Tin, Zinc, Plate Glass, Marble, Gas Globes, Lustres, Windows, &c. Tablets, 5d. each.

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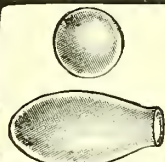
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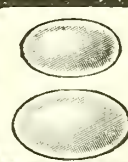
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